

ISSN 0003-2689

Analytical Abstracts

Index to Volume 45
1983

ROYAL SOCIETY OF CHEMISTRY

PUBLICATIONS AND INFORMATION BOARD

Chairman: C. W. Rees, Ph.D., D.Sc., C.Chem., F.R.S.C., F.R.S.

K. W. Bagnall, B.Sc., Ph.D., D.Sc.,
C.Chem., F.R.S.C.

H. J. Cluley, M.Sc., Ph.D., C.Chem.,
F.R.S.C.

K. G. Cooper, C.Chem., F.R.S.C.

E. A. V. Ebsworth, M.A., Ph.D., Sc.D.,
C.Chem., F.R.S.C.

R. D. Guthrie, Ph.D., D.Sc., C.Chem.,
F.R.S.C.

A. R. Haygarth Jackson, M.Sc., F.I. Inf. Sc.

R. Howe, B.Sc., D.Sc., Ph.D., C.Chem.,
F.R.S.C.

G. W. Kirby, M.A., Ph.D., Sc.D., F.R.S.E.,
C.Chem., F.R.S.C.

F. J. McQuillin, M.A., D.Phil., D.Sc.,
C.Chem., F.R.S.C.

F. S. Stone, B.Sc., Ph.D., D.Sc., C.Chem.,
F.R.S.C.

K. W. Sykes, M.A., B.Sc., D. Phil.

J. M. Thomas, D.Sc., Ph.D., F.R.S.,
C.Chem., F.R.S.C.

P. A. H. Wyatt, B.Sc., Ph.D., C.Chem.,
F.R.S.C.

ANALYTICAL ABSTRACTS EDITORIAL COMMITTEE

Chairman: H. J. Cluley, M.Sc., Ph.D., C.Chem., F.R.S.C.

G. J. Dickes, M.Chem.A., C.Chem.,
F.R.S.C., F.I.F.S.T., F.R.S.H.

I. D. Fleming, B.Sc., Ph.D., C.Chem.,
M.R.S.C.

J. H. Hunt, B.Sc., Ph.D.

S. J. Lyle, B.Sc., Ph.D.

D. I. Packham, B.Sc., Ph.D., A.R.C.S.,
D.I.C., C.Chem., F.R.S.C.

J. E. Page, Ph.D., D.Sc., C.Chem., F.R.S.C.
D. I. Rees, M.Sc., Ph.D.

H. I. Shalgosky, B.Sc., C.Chem., M.R.S.C.

J. F. Stevens, M.Phil., F.I.M.L.S., F.I.Biol.,
F.R.S.H.

J. S. Wragg, B.Sc., C.Chem., F.R.S.C.

Manager, Abstracts and Indexes: M. G. Robiette, M.A., M.Sc., C.Chem., M.R.S.C.

Editors, Analytical Abstracts: B. Harris; R. L. Jordan, M.Sc., C.Chem., M.R.S.C.

Analytical Abstracts (ISSN 0003-2689) is published monthly, consisting of two volumes per year, by The Royal Society of Chemistry, Burlington House, London W1V 0BN, England. All orders accompanied with payment should be sent directly to The Royal Society of Chemistry, The Distribution Centre, Blackhorse Road, Letchworth, Herts. SG6 1HN, England. 1984 Annual Subscription rate if purchased on its own: U.K. £181.50, Rest of World £190.50, U.S.A. \$362.00. One-sided edition of this journal: U.K. £198.00, Rest of World £208.00, U.S.A. \$395.00.

Air freight and mailing in the U.S.A. by Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003. U.S. Postmaster: Send address changes to Analytical Abstracts, Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003. Second class postage paid at Jamaica, NY 11431. All other despatches outside the U.K. by bulk airmail within Europe, and accelerated surface post outside Europe. PRINTED IN THE U.K.

© The Royal Society of Chemistry, 1984. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photographic, recording or otherwise, without the prior permission of the publishers.

AABSAR 45 S1-S116 A1-A41 (1983)

ISSN 0003-2689

Analytical Abstracts

Author Index

Published by
The Royal Society of Chemistry

Volume 45 1983

© The Royal Society of Chemistry, 1984
Printed by Heffers Printers Ltd Cambridge England

ANALYTICAL ABSTRACTS

PUBLISHED BY THE AMERICAN CHEMICAL SOCIETY

VOLUME 42, NUMBER 1, JANUARY 1980

ISSN 0003-682X

ADDITIONAL INFORMATION: 0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

0003-682X(198001)42:1;1-0

Analytical Abstracts

Published by
The American Chemical Society

Volume 42, 1980

ANALYTICAL ABSTRACTS
PUBLISHED BY THE AMERICAN CHEMICAL SOCIETY
11 F STREET, N.W., WASHINGTON, D.C. 20004
Subscription prices: \$10.00 per volume (12 issues)
Single issues: \$0.85 per issue

ANALYTICAL ABSTRACTS is a service to the analytical chemist, providing a concise summary of the latest research in the field. The journal is published by the American Chemical Society, and is available to members of the society at a special price. The journal is published quarterly, and is available to members of the society at a special price. The journal is published quarterly, and is available to members of the society at a special price.

Introduction to the Index

Subject Index

The alphabetically ordered subject index contains entries based on the most important subjects mentioned in the title and abstract. Word-by-word alphabetisation is used for the bold subject headings, hyphenated words being treated as single entries. Repetition of words or phrases that occur in preceding entries is avoided by the use of indentation.

The main principles of the indexing system are illustrated in the following typical entries:

- ① **Biological tissues**, see also under *Plants*, and under names of specific tissues
analysis, with laser micro-probe, 4J102
 - ② **Plants**, see also *Algae; Cereals; Fungi; Vegetables*
analysis, applications of ion-sensitive electrodes
in, review, 2F1
 - ③ **Amidase**, see under *Enzymes, specific*
 - ④ **Aliesterase**, see *Enzymes, specific, carboxylesterase*
 - ⑤ **BHT**, see *p-Cresol, 2,6-di-t-butyl-*
 - ⑥ **Environmental materials**, analysis, X-ray monochromators for use in, 2A1C
chrom. analysis of, 2J37B
- ① Abstracts are indexed under the most specific heading that can be assigned on the basis of the title and abstract text. **Biological tissues** is a general heading; such a heading is used either because no specific tissue is named, or because the abstract indicates the general applicability of the subject matter to all or most tissues. An abstract on a specific tissue should be looked for under the name of that tissue. "See also" references direct the user to closely related subjects—in this case **Plants**.

- ② **Plants** is also a general heading. "See also" references direct to other more specific headings, which must also be searched for complete retrieval.
- ③ References to *Cosmetics, Dyes, Enzymes*, miscellaneous *Optical devices* and minor items of *Laboratory apparatus* will be found under these general headings. Thus, "Amidase" will be found under **Enzymes, specific**.
- ④ "Aliesterase" is also referred to **Enzymes, specific**, but is then referred to "Carboxylesterase", which is the name used in *Analytical Abstracts*.
- ⑤ Organic compounds are, in general, indexed under the parent compounds, except under the headings **Indicators** and **Reagents, organic**, and the lists of reagents under specific elements. Esters and salts of organic acids are, in general, indexed under the names of their acid constituents. Each compound has only one main entry, which is usually a systematic name, and synonymous names are cross-referred to the main entry. Capital-letter abbreviations such as **BHT** are grouped at the beginning of the alphabetical sections corresponding to the initial letter.
- ⑥ The letter B or C following the abstract number indicates that the item refers to a book or conference paper, respectively.

Author Index

The names of all authors are listed alphabetically, and prefixes are treated as part of the surname; letter-by-letter alphabetisation is used.

The German ä, ö and ü and the Danish or Norwegian ø have been rendered as ae, oe, ue and oe, respectively. Books are indicated by B after the abstract number.

Errata

Some errata subsequently published in the journals abstracted are included in the following list. When the initials of given names in the Author Index and in the abstracts do not agree, the Index should be assumed to be correct.

Vol. 45, 1983

Abstract

No.	Line	
1B208	5	insert 1983, before 12 (1)
1C118	9	insert PVC, before Cerechlor
1C118	10	delete VC,
1D101	9,10	for E ¹ read E ₁
1D173	9	for 3-L-hydroxypropylpropyl read 3-(1-hydroxypropyl)propyl
1D204	9	for E ¹ read E ₁
1D206	12	insert 1 after Ingrain Blue
1E34	2,3	for Silva, S.; Marisol M. read Silva S., Marisol M.
1E73	6	delete was
1J158	2	for studies read studies
2B27	7	for K - phthalate read K H phthalate
2C35	13	for 2C211 read 2C11
2D63	8	for dried read drug
2D68	8	for aq. soln. urine or plasma read urine, plasma, aq. soln.
2E17	19	for epherine read ephedrine
3A10	6	insert 6- before (2-arsono- phenylazo)-

3B38	14	for tera- read tetra-
3B63	15,16,17	these lines should read Y in the presence of La, the mean error for Y is 0.6 to 6.6%.
3B77	10	after oxidise insert U ^m
3B112	5,6,	for (Anal. Abstr., 1982, 43, 3B183) read (Ann. Univ. Mariae Curie- Skłodowska, Sect. AAA, 1979, 33, 101)
3B153	12	for E ¹ read E ₁
3B178	9	for At read Al
3C15	11	for cyclohexane read cyclohexanone
3C24	14	insert be after can
3C106	6	for NMD read HMDS
3D174	11	for record read second
3F44	10	for 3F6) before Inulin read 3F6). Inulin
3F44	11,12	for, again prior to read before
3G9	11	for Zn read Pb
3G35	9	for -1,2,4-dioxo- read -2,4-dioxo-
3G38	8	insert a before metabolite
3J57	6	for led into read coupled to
3J128	6	delete each
3J128	7	for both read each
4A27	5	for Chem. read Chim.
4A27	6	delete i after proton
4D60	13	for ≤1 read ≥1
4D164	5	for 529 read 259

Abstract

No.	Line	
4D166	2	for Zhohlo read Zhoglo
4D166	3	for Mykhailyk read Mikhailik
4H42	13	for $1\text{ m}\mu\text{ ml}^{-1}$ read $1\text{ }\mu\text{g ml}^{-1}$
5B49	14	delete of
5B49	15	insert of before Mg
5B53	2	for (pyridylazo)-2-naphthol read pyridylazo)-2-naphthol
5B56	3	for Stal read Stali
5B106		
5B107		
5B138	7	for CO_4^- read ClO_4^-

Abstract

No.	Line	
5D218	9	for N-2-hydroxy-5-nitrophenyl)hexa- decanamide read N-(2-hydroxy-5- nitrophenyl)hexadecanamide
5H60	11	for a.a.s. read a.e.s.
5H64	5	for H read N
6D217	15	for -1-yl-ethane read -1-yl]ethane
6G37	11	for a - Sep-Pak Florisil read a Sep-Pak, Florisil
6G39	5	for 5,9,13-Trimethyltetradeca-4,8,12- decatienoic acid read Farnesyl acetate

Subject Index

A

ACTH, see *Corticotrophin*AETT, see *Naphthone*, 3'-ethyl-5',6',7',8'-tetrahydro-5',5',8',8'-tetra-methyl-2'-aceto-Abscisic acid, detmn. in plants, by g.c. of methyl ester, 2G8
purification procedure for, 4G13

Acacia, sepn. of sugar enantiomers in hydrolysates of, by g.l.c. of tri-fluoroacetylated (-)-bornyloxime deriv., 5C16

Aceclidine, detmn., colour reactions for, 4E54
identn., by t.l.c., 4E55Acenocoumarin, see *Nicoumalone*

Acephate, detmn., by h.p.l.c., 6G30

Acetaldehyde, detmn. in car-exhaust gases, by g.l.c., 2C73

in presence of other aldehydes, by h.p.l.c. of azines - fluorim., 3H30
—, decanoyl-, sodium bisulphite, detmn., by O combustion - potentiom., 3E76Acetamide, *N*-butyl-2-(4-aminophenyl)-, diffuse-reflectance-spectrom. study of silica gel-immobilised, 6A22—, *N*-butyl-2-(4-nitrophenyl)-, diffuse-reflectance-spectrom. study of silica gel-immobilised, 6A22—, 4,4'-(2,6-dihydroxy-*N*-isopropyl-4-azaheptane-1,7-diylidloxy)bis-(2-phenyl)-, analytical data for, 6E51—, *N*-[2-(di-isopropylamino)ethyl]-2-(2-oxopyrrolidin-1-yl)-, see *Pramir-acetam*

—, dimethyl-, detmn. in polyurethan films, by g.l.c., 3E81

of Fe³⁺ in, square-wave polarogr., 3C107of H₂O in, i.r. spectroph., 3C108—, 2-mercapto-, derivatives, sepn. and identn. of *N*-aryl-substituted, by t.l.c., 5C42Acetaminophen, see *Paracetamol*Acetanilide *NO*-(β -D-glucuronide), synthesis of, and analytical data for, 5D8—, 4'-chloro-, *NO*-(β -D-glucuronide), synthesis of, and analytical data for, 5D8

Acetate, detmn., ion-exclusion chrom., 1E79

in bacterial-culture supernatants, enzymic, 5D101

sepn. from other anions, by isotachopheresis, 3J45

from other org. anions, high-performance ion chrom., 5B3

Acetic acid, detmn., potentiom., use of sulphur nitride electrode for, 2J166

in air, by collection on active carbon - liquid chrom., 1H31

indicator tube for, 3H33

in coffee, by isotachopheresis, 3F42

in lactic acid-fermented vegetables, by h.p.l.c., 5F51

in paper-mill effluent, by g.c. of *p*-bromophenacyl ester, 4H94

in presence of chloroacetic, formic or trichloroacetic acid, potentiom., 4C17

of its chloro-deriv., by g.l.c. of butyl esters, by h.p.l.c. or by n.m.r., 3C33

of other acids, potentiom., 2A19

of other org. acids, ion chrom., 4E37

in sauerkraut brine, by isotachopheresis, 2F36

in silage, by h.p.l.c., 3G23

in sugar-refinery products, by g.l.c. of butyl ester, 4F21

in water, in presence of phenol, potentiom., 4H72

of acetone in, spectroph., 3C34

— esters, detmn. in dimethylmercury, by g.l.c. or m.s., 5C25

of double-bond position in monounsaturated, by g.c. - m.s., 3C17

by m.s. of dimethyl disulphide adducts, 6C20

—, C₁ to C₈ *n*-alkyl, sepn. and detmn. in presence of related compounds, by g.c., 2C35

—, butyl, detmn. in air, by g.l.c., 5H42

indicator tube for, 5H29

—, ethyl, detmn. in adhesive films, by g.l.c., 1E13

in air, with Organic Vapour Monitor, 1C4

—, methyl, analysis of impurities in, by g.c., 6C13

—, 2-naphthylmethyl, g.c. - m.s. study of, 6C42

—, vinyl, detmn. in ethylene - vinyl acetate copolymers, review, 2C115

sepn. from related compounds, by g.l.c., 2C118

Acetic acid, bis-(4-chlorophenyl)-, detmn. in urine, by h.p.l.c. - n.a.a., 4D136

—, 2,2-bis-(2,4-dichlorophenoxy)-, methyl ester, identn. in water, by g.c. (or liquid chrom.) - m.s., 2H83

—, chloro-, detmn. in presence of acetic acid, potentiom., 2A19
of acetic and other chloroacetic acids, by g.l.c. of butyl esters, by h.p.l.c. or by n.m.r., 3C33

of acetic, formic or trichloroacetic acid, potentiom., 4C17

—, C₁ to C₈ *n*-alkyl esters, sepn. and detmn. in presence of related compounds, by g.c., 2C35

Acetic acid—continued

—, dichloro-, detmn. in presence of acetic acid, potentiom., 2A19
of acetic and other chloroacetic acids, by g.l.c. of butyl esters, by h.p.l.c. or by n.m.r., 3C33—, C₁ to C₈ *n*-alkyl esters, sepn. and detmn. in presence of related compounds, by g.c., 2C35

—, 3,4-dihydroxyphenyl-, detection in cerebrospinal fluid, by h.p.l.c., 3D205

detmn. in brain tissue, by h.p.l.c., 2D200, 2D201, 3D104
automated, 5D128

in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D155

in cerebrospinal fluid, by h.p.l.c., 1D164

h.p.l.c. - m.s. study of ion pair formed with octanesulphonate by, 4D194

—, dipropyl-, see *Valproic acid*—, ethylenediaminetetra-, see *EDTA*

—, hydroxy-, detmn. in sugar-refinery products, by g.l.c. of butyl ester, 4F21

—, *N*-(2-hydroxyethyl)iminodi-, sepn. from other aminopolycarboxylic acids, ion chrom., 3C40

—, 5-hydroxyindol-3-yl-, detection in cerebrospinal fluid, by h.p.l.c., 3D205

detmn. in biol. materials, by h.p.l.c., 2D202

in brain tissue, by h.p.l.c., 2D199, 2D200, 4D217, 5D130
automated, 5D128

in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D155

in cerebrospinal fluid, by h.p.l.c., 1D164, 4D192, 5D105

in plants, by isotope dilution - h.p.l.c., 1D165

in presence of other indolamines, by h.p.l.c., 3D215

in urine, by h.p.l.c., 6D164

by high-performance t.l.c., 5D129

interference by oxprenolol metabolite in, 4D203

spectroph., 6D206

effect of temp. on stability of, 4D188

—, 4-hydroxy-3-methoxyphenyl-, detection in cerebrospinal fluid, by h.p.l.c., 3D205

detmn., voltamm., 6J163

in biol. materials, by h.p.l.c., 2D202

in brain tissue, by g.l.c. of pentafluoropropionyl deriv. - m.s., 1D124
by h.p.l.c., 2D200, 2D201

automated, 5D128

in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D155

in cerebrospinal fluid, by h.p.l.c., 4D192, 5D105

in urine, by g.l.c. of TMS deriv., 6D165

by h.p.l.c., 5D104, 6D164

by h.p.l.c. - fluorim., 2D144

by t.l.c. - colorim., 2D145

—, 3-hydroxyphenyl-, detmn. in single caudate nuclei, by g.l.c. of pentafluoropropionyl - trifluoroethyl ester deriv. - m.s., 6D163

—, 4-hydroxyphenyl-, detmn. in single caudate nuclei, by g.l.c. of pentafluoropropionyl - trifluoroethyl ester deriv. - m.s., 6D163

—, imidazol-4-yl-, detmn. in biol. tissues, blood serum or urine, enzymic - spectroph., 5D127

—, iminodi-, sepn. from other aminopolycarboxylic acids, ion chrom., 3C40

—, indol-3-yl-, detmn. in brain tissue, by h.p.l.c., 4D217

in pine tissue, by h.p.l.c. or fluorim., 1G23

in presence of other indolamines, by h.p.l.c., 3D215

in urine, interference by indomethacin metabolite in colorim. method for, 1D166

—, mercapto-, detmn., by chemiluminescence method, 1C8

by kinetic - spectroph. method, 6C26

spectroph., 5C7

titrim., 6C27

with bromamine N, 4A16

—, esters, benzyl, detmn., spectroph., 1C17

—, ethanolamine, detmn., spectroph., 1C17

—, 1-methylimidazol-4-yl-, detmn. in urine, by h.p.l.c., 4D204

—, 1-naphthyl-, detmn. in grapes, liquid chrom., 3G29

—, 2-naphthyl-, detmn., low-temp. phosphorim., 3G31

—, nitrilotri-, detmn., potentiom., with Ca²⁺-selective electrode, 4A18
sepn. from other aminopolycarboxylic acids, ion chrom., 3C40

—, methyl ester, detmn., by g.c., 6C25

—, 2,2'-oxybis(thio)-, detmn., spectroph., 1C17

—, phenoxy-, detmn. in antibiotic fermentation mixtures, by t.l.c., 6E24

—, trichloro-, detmn. in presence of acetic and other chloroacetic acids, by g.l.c. of butyl esters, by h.p.l.c. or by n.m.r., 3C33

of acetic, chloroacetic or formic acid, potentiom., 4C17

in waste water, by g.c. of methyl ester, 3H98

Acetic acid, trichloro-—*continued*

—, C_1 to C_6 *n*-alkyl esters, sepn. and detmn. in presence of related compounds, by g.c., 2C35

—, trifluoro-, detmn., potentiom., use of sulphur nitride electrode for, 2J166

Acetic acid derivatives, chlorophenoxy-, concn., sepn. and detmn., liquid chrom., 6C36

Acetoacetate, detmn. in milk, by flow-injection - spectroph. method, 5F48

Acetoacetic acid, 4-bromo-, 1-methylheptyl ester, detmn. in blood, by isotope dilution - t.l.c., 6D162

Acetohydrazide, detmn., spectroph., 3C39

Acetone, analysis of mixtures of, with its chloro-deriv., by g.c., 3C29

detmn. in acetic acid, spectroph., 3C34

in air, automated spectroph., 3H32

with Organic Vapour Monitor, 1C4

in aq. mixtures, measuring 'stick' for, 5B137

in car-exhaust gases, by g.l.c., 2C73

in chloromethane, by BSI g.l.c. method, 5C11

in gas mixtures, preparation of gas mixtures for calibration in, 4J13

in products of oxidative pyrolysis of polyethylene, by g.c. - m.s., 2C113

in rendering emissions, by h.p.l.c. of 2,4-dinitrophenylhydrazones, 3H29

monitoring of, comparison of passive dosimeters and charcoal tubes for, 2A1C

—, **dihydroxy-, phosphate**, detmn. in muscle tissue, by bioluminescence method or fluorim., 4D13

—, **hexafluoro-**, detmn. in presence of its photolysis products, by g.c., 5C20

Acetonitrile, detmn., with modified thermal energy analyser, 1C34

in aq. mixtures, by g.c., 2C40

Acetonitrile derivatives, halo-, detmn. in water, by g.c., 1H73

Acetophenone, α -chloro-, detmn. in chemical protection sprays, by g.c. - m.s., 1C127

Acetylcholinesterase, see under *Enzymes, specific*

Acetylcysteine, detection, fluorogenic reagent for, 2C10

detmn. in pharmaceutical preparations, spectroph., 1E9

in presence of other mercapto-compounds, by h.p.l.c. of *N*-(anilino-phenyl)maleimide adducts, 4A8

Acetylene, detmn. in air, by g.c., 6H22

in products of oxidative pyrolysis of polyethylene, by g.c. - m.s., 2C113

Acetylene derivatives, see *Alkynes*

β -N-Acetyl-D-glucosaminidase, see under *Enzymes, specific*

Acids, see also *Amino-acids*; *Carboxylic acids*; *Sulphonic acids*

analysis of mixtures of, potentiom., linear graphical method for use in, 2A19

detmn., titrim., nomogram for assessing possibility of, 5A21

of weak, potentiom., with sulphur nitride electrodes, 2J166

sepn., Donnan exclusion chrom., 2C28

of anions in strong mineral, by h.p.l.c., 6J24

Acclimomycin A, see *Aclarubicin*

Aclarubicin, analysis of urinary metabolites of, by h.p.l.c. or t.l.c., 5D40

Aconitic acid, detmn., fluorim., 2C32

in sugar-refinery products, by g.l.c. of butyl ester, 4F21

Aconitine, detmn., spectroph., 6E16

Acridine, detection in urine, by t.l.c. - fluorim., 4D127

sepn. from anthracene and its 2-amino-deriv., by h.p.l.c., 5C43

—, **tetrahydroamino-**, see *Tacrine*

Acrylaldehyde, detmn. in car-exhaust gases, by g.l.c., 2C73

in presence of other aldehydes, by h.p.l.c. of azines - fluorim., 3H30

in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113

Acrylic acid, detmn. in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113

sepn. from related compounds, by g.l.c., 2C118

— **esters**, sepn. from related compounds and from each other, by g.l.c., 2C118

sepn. and detmn. in air from polystyrene-production plant, by g.l.c., 3H37

Acrylic acid derivatives, identn. in dental materials, by g.c. - m.s., 6C83

Acrylonitrile, detmn. in blood plasma, by g.c., 4D130

in xanthate-terminate butadiene - acrylonitrile co-oligomers, by pyrolysis - g.l.c., 2C117

Actinoids, detmn., by electro-deposition - m.s., 2B69

in biol. materials, extraction chrom., 6ASC

Activation analysis, see *Radioactivation analysis*

Acylneuraminase cytidyltransferase, see under *Enzymes, specific*

Adenine, identn. in cacao products, by h.p.l.c., 5F24

sepn. from other degradation products of adenine nucleotides, by t.l.c., 4D284

— **arabinoside**, detmn. in presence of other nucleosides, by h.p.l.c., 1D240

Adenine, 8-hydroxy-, detmn., by r.i.a., 6D261

Adenosine, detection, by h.p.l.c. - m.s., 6D260

in kidney-cell extracts, by h.p.l.c., 4D285

detmn., potentiom., with enzyme electrode, substrate consumption by electrode in, 1J194

in blood plasma, by h.p.l.c., 4D289

in brain tissue, by h.p.l.c. - fluorim., 1D241

Adenosine, determination—*continued*

in presence of other nucleosides, by h.p.l.c., 1D240

liquid chrom., 2D272

sepn. from its phosphates, liquid chrom., 1D233

from other degradation products of adenine nucleotides, by t.l.c., 4D284

— **phosphates**, detmn. in biol. tissues, with Bessman phosphate analyser, 6D12

in muscle tissue, by bioluminescence method, 4D13

sepn. from adenosine and from each other, liquid chrom., 1D233

sepn. and detmn., by t.l.c. - densitom., 1D236

in beef, by h.p.l.c., 1F21

t.l.c. study of inorg. P - ATP and ADP - ATP exchange kinetics, 5D186

—, **cyclic 3',5'-mono-**, detmn., by chemiluminescence immunoassay, 3D277

review, 2D270

in biol. tissues or blood plasma, by enzyme immunoassay, 6D259

of free and protein-bound fractions of, in blood, by competitive protein-binding method, 5D188

identn. and detmn. in plants, by h.p.l.c., 1D234

sepn. from related compounds, liquid chrom., 3D274

—, **5'-tri-**, detmn., by automated bioluminescence method, 4D14

in biol. tissues, specificity of bioluminescence method for, 5D196

sepn. from its metal chelate, by h.p.l.c., 5D187

Adenosine, deoxy-, detection, by h.p.l.c. - m.s., 6D260

detmn. in presence of other nucleosides, by h.p.l.c., 1D240

—, **derivatives**, sepn. and detmn., by h.p.l.c., 5D185

—, **2-(4-hydroxyanilino)-**, detmn. in blood serum or urine, by h.p.l.c., 2D90

—, **1-methyldeoxy-**, detmn. in chemically modified DNA, by h.p.l.c., 4D279

Adenosine deaminase, see under *Enzymes, specific*

Adenosine derivatives, sepn. and detmn., by h.p.l.c., 5D185

Adenosinetriphosphatase, see under *Enzymes, specific*

Adenylate cyclase, see under *Enzymes, specific*

Adhesives, characterisation, by ion-beam methods, 3A1C

by pyrolysis - capillary g.c., 6C86

detmn. of ethyl acetate in films, by g.l.c., 1E13

Adiphenine, detmn. in brain tissue, with its metabolites, by h.p.l.c., 3D104

Adipic acid esters, sepn. from aldol acetates, by g.c., 6D152

Adipose tissue, detmn. of flunarizine in, by g.l.c., 3D132

of glycerol formal in, by g.l.c. - chemical-ionisation m.s., 6D120

of phosphate triesters in, gel chrom. - g.l.c., 6D143

Adrenaline, detection of noradrenaline in, colour reaction for, 6C23

detmn., by chemiluminescence method, 1C8

by h.p.l.c., 6E46

fluorim., 1A13

liquid chrom., comparison of coulom. detectors for, 6D201

potentiom., ion-selective electrode for, 6J158

in biol. materials, by alumina extraction - enzymic - radiom., 4D195

in biol. tissues, by h.p.l.c., 4D190

in blood plasma, enzymic - radiom., 1D157

in brain tissue, by h.p.l.c., 1D158

in foods, with amino-acid auto-analyser, 2F4

in local-anaesthetic injections, fluorim., 5E36

in pharmaceutical preparations, by h.p.l.c., 3E16

paper chrom. - spectroph. (or u.v. spectroph.), 6E47

in presence of dopamine and noradrenaline, by t.l.c. of dansyl deriv. of tritiated methyl deriv. - liquid scintillation counting, 1D156

in urine, by h.p.l.c., 6D199

by isolation on immobilised H_2BO_3 - h.p.l.c., 4D191

comparison of methods for, 6D198

liquid chrom. - phosphorim., 3D203

identn. and detmn. in presence of dopamine and noradrenaline, by t.l.c., 4E17

sepn. from other biogenic amines and products of their caeruloplasmin-catalysed oxidation, by h.p.l.c., 2D196

— **O-sulphates**, detection, fluorim., 4D196

Adrenaline, 3-O-methyl-, detmn. in urine, by h.p.l.c., 6D202

radial-compression liquid chrom., 2D198

Adriamycin, see *Doxorubicin*

Adriamycinol, detmn. in blood plasma, by h.p.l.c., 3D68

Aerosols, see also *Welding fume*

analysis of atmospheric, treatment of filters used in, 6H7

characterisation of atmospheric, review, 1H8

of hygroscopic inhalation, 5ASC

of stratospheric, 1A1C

detmn. of benzo[a]pyrene in, by g.l.c., 2H35

of elements in particle size fractions of, 5A4C

of inhalable, in process streams, cyclone samplers for, 3J154

identn. of compounds in marine, with MOLE Raman micro-probe, 2A2C

nebuliser for production of, 5J5

particle size analysis of droplets in, with cascade impactor, 1J201

sampling of, calibration equipment for, 1H6

detmn. of collection efficiency of device for, 1H7

of atmospheric, efficiency for large wind-borne particles of devices for, 5H7

- Aflatoxins**, analysis, by h.p.l.c., review, 5F6
 detection, mini-column method for, 6F27
 in grain dusts, by t.l.c., 3G4
 detmn. in air-borne dust, by t.l.c. - fluorim., 4H27
 in blood serum, by h.p.l.c., comparison of extraction methods for, 5D88
 in mouldy foods, by t.l.c. - fluorim., 2F18
 — **A₁**, detection in olive oil, by t.l.c., 4F75
 — **B₁**, detmn. in feeding-stuffs, by t.l.c., 5G19
 in foods, by t.l.c. - densitom., 6F11
 — **M₁**, detmn. in dairy products, review, 5F43
 in milk or milk powder, by t.l.c. - fluorim., 6F40
Agglomerates, detmn. of in in, spectroph., 2B57
Air, see also *Breath; Dust, atmospheric*
 analysis, 1C87, 2A2C
 by g.c., with use of pre-column stripper for alkene removal, 6H23
 by time-of-flight m.s., 5J7
 GASFET sensors for, 1J189
 use of semiconducting sensors in, 3J8
 of aerosols in, treatment of filters used in, 6H7
 of malodorous pollutants in, by collection on active carbon - g.c. - m.s., 2H27
 of org. compounds adsorbed from, by secondary-ion m.s., 1H36
 of org. contaminants in, sampling variability and storage stability in, 2H23
 of pollutants in, by g.c., evaluation of enrichment factor in pre-concn. for, 3J48
 by m.s., selective ion source for, 3H26, 6A7C, 6H21
 of samples from vicinity of fire, by dynamic head-space g.c., 1C6
 of solvent vapours in, automated g.c. system for, 4H19
 of trace matter in tropospheric and stratospheric, review, 1H8
 of volatile org. substances in, by g.c. - m.s., 6H20
 characterisation of effluents from vehicle air-bag inflators, 5H12
 of S compounds in, by photo-oxidation - m.s., 5H31
 concn. of org. compounds from, adsorbents and thermal desorption for, 3H24
 comparison of adsorbents for, 3H23
 control of impurities in, with use of laser-resonance optoacoustic gas analyser, 5H11
 detection of α -particles in, using nuclear-track detector, 3J130
 of combustible gases in, limitations of ISA standard for devices for, 3H9
 of di-isopropyl methylphosphonate in, with piezoelectric crystal detector, 5H32
 of N oxides in, high-sensitivity device for, 1H18
 of SO₂ in, colour reaction for, 1H3
 detmn. of acetic acid in, by collection on active carbon - liquid chrom., 1H31
 indicator tube for, 3H33
 of acetone in, automated spectroph., 3H32
 of C₂ to C₃ acids in, by adsorption on coated glass beads - g.c., 2H30
 of aldehydes in, comparison of methods for, 5H27
 of C₆ to C₁₁ alkanes and cycloalkanes in, by g.l.c., 3H25
 of amines and isocyanates in, by g.l.c., 5H38
 of NH₃ in, photom., sensor tablets for, 2H14
 of NH₃, CO₂, HCN, propanol and H₂O in, by g.c., low-temp. sampling techniques for, 1J6
 of aromatic amines and isocyanates in, by h.p.l.c., 3H38
 of asbestos and soot in, electron microsc., 6H19
 of benzene and H₂S in, with stain-length passive dosimeters, 3H18
 of benzene and vinyl chloride in, by g.l.c., 5H26
 of bis(isocyanatophenyl)methane and di-isocyanatotoluene in, by g.c. of heptafluorobutyl deriv., 6H28
 of B compounds in, photom., 2H10
 of Br and I in, by n.a.a., comparison of sampling media for, 6H18
 of butonate and its metabolites in, chrom., 4H30
 of butyl acetate in, indicator tube for, 5H29
 of caprolactam in, by t.l.c., 5H40
 of C in non-methane org. form in, by cryogenic pre-concn. - flame ionisation detection, 3H27
 of CO in, by g.c., 5H13
 by triple-quadrupole m.s., 4H11
 of CO and O in coal-mine, with use of electrochem. sensors, 1J8
 of carcinogens and multigens in, by g.c. - negative-ion chemical-ionisation m.s., 2H34
 of Cl⁻ in, by Hg(SCN)₂ method, and of K in, flame photom. or potentiom., with ion-selective electrode, 6H17
 spectroph., 6B140, 6H16
 of chloroethanol in, spectroph., 4H21
 of Cu, Pb and Zn in soil, stripping potentiom., 3G9
 of cyanuric chloride in, differential pulse polarogr., 4C74
 of 1,4-diazabicyclo[2.2.2]octane in, spectroph., 6H26
 of diethyl telluride in, polarogr., 1H35
 of diethylamine, dimethylamine and dimethylaniline in, with use of tubular film sampler, 4H24
 of 2,4-di-isocyanatotoluene in, by g.c. - m.s., 2H33
 by h.p.l.c. of deriv. formed with 4-aminophenol, 2H32
 of dimethylamine in, by head-space g.c., 6H25
 of dimethylcarbamoyl chloride in, by g.c., 3H34
Air, determination—*continued*
 of dust and heavy metals in, by continuous measurement of β -radiation absorption and XRF, 4H7
 of ethylene and other reactive hydrocarbons in, by g.c., 6H22
 of 2-ethylhexanol in, by collection on Chromosorb 102 samplers - g.l.c., 4H22
 of F⁻ in gaseous and particulate form in, 2A2C
 of formaldehyde in, differential pulse polarogr., 3H31
 modified pararosaniline method for, 4C13
 effect of temp. in, 5H28
 spectroph., 6H24
 of HCH in, by micro-diffusion - colorim., 4H29
 of halohydrocarbons in, by g.l.c., 4H20
 of hexachlorobenzene in, by g.c., 5H33
 of H in, by coherent active spectroscopy - light scattering, 1H13
 of H¹H and H³HO in, monitor for, 2H8
 of HCl in, ring colorim., 5H22
 of HCl, HNO₃ and H₂SO₄ in, system for, 1H10
 of HF in, by permeation sampling - potentiom., with ion-selective electrode, 1H25
 of H₂S in, electrochem. device for, 4J12
 of hydroxyl radical in troposphere, by e.s.r. and g.c. - m.s., 2H9
 of isocyanates in, using paper-tape monitor, 1H41
 of isopropylidenebis(dipromophenol) in, absorptiom., 5H37
 of 4,4'-isopropylidenediphenol and phenol in, by h.p.l.c., 6H27
 of Pb in, by XRF, 1H17
 of Pb, Se and their alkyl deriv. in, by chromato - a.a.s., 2J74
 of maximum emission concn. of pollutants in, review, 1H23
 of Hg in, by a.a.s., field sampler for, 2H13
 by a.f.s., 6H10
 by collection on re-usable sampling tubes - a.a.s., 1H15
 with stabilised d.c. arc, 3H16
 of metaldehyde in, by g.c., 4H23
 of Mo in, colorim., 5H19
 of monomers in samples from polystyrene-production plant, by g.l.c., 3H37
 of naphthalene and its chloro- and methyl deriv. in, by g.l.c., 5H34
 of nickel tetracarbonyl in, by g.l.c., 5H23
 of nicotine in, by g.c., 6H30
 of NO₂⁻ and HNO₃ in, with use of diffusion denuder with filter pack, 1H20
 of HNO₃ in, calibration and tests of filter-collection method for, 6H13
 possible error in denuder difference technique for, 5H16
 of N₂ - O₂ ratio in, by Raman scattering, 2H18
 of NO and NO₂ in, spectroph., 4H12
 of NO₂ in, chemiluminescence detector for continuous, 5H15
 pulsed thermal-lens spectroph., 6H12
 of odorous impurities in, by g.c., review, 1H32
 of org. compounds in, by g.c., 1H29
 use of passive samplers for, 2H24
 with Organic Vapour Monitor, 1C4
 of org. contaminants in workplace, by h.p.l.c., 2A2C
 of org. emissions in, review, 1H28
 of org. S compounds in, by head-space g.c., 6H3
 of oxirane in, by g.c., 2H28
 of O in, bacterial sensor for, 4J132
 of ¹⁸O in water vapour in, by m.s., 1H14
 of O- and S-containing compounds in, by reaction g.c., 5H30
 of O₃ in, review, 4H14
 spectroph., 3H20
 of paint-solvent vapours in, by g.l.c., 5H42
 of pentachloro- and tetrachloro-phenols in, by collection on silica gel - g.l.c., 1H40
 of perhydroxyl radicals in, by catalytic - chemiluminescence method, 1H21
 of pesticides in, by h.p.l.c., 1H42
 colorim., 2A2C
 of phenylhydrazine in, 5A2C
 spectroph., 5H4
 of phenylmercury acetate in, by a.a.s. and g.c., 2A2C
 of Pu in, Rn-immune monitor for, 4H10
 of pollutants in, apparatus for continuous, 2H17
 radiom., 2A10
 use of solid sorbents in, 1H4
 of 'polyatomic' gases in, optoacoustic spectrom., 4H4
 of quality of, regional network for, 2A2C
 of Rn in soil, using opened counting phial and liquid scintillation counter, 3G10
 of Rn - Rn daughters in, calibration chamber for, 5J10
 of ²²⁰Rn and ²²²Rn daughters in, optimised scheme for, 1H12
 of ²²²Rn daughter nuclides in soil, with automatic collection - counting apparatus, 1G11
 of Rn decay products in, by α -counting of particles sorbed on filter-paper, 6H9
 of reduced S compounds in, by chemiluminescence method, 3H35
 of r.h. of, dielectrom., instrument for, 6J5
 of S compounds in, BSI sampling equipment for, 2H19
 of SO₂ in, BSI spectroph. method for, 2H20
 calibration standards for, 6H14

- Air**, determination of SO₂ in—*continued*
 evaluation of analysers for, 5H17
 radiom., 4H15
 spectroph., ethanolamine as absorbing reagent for, 3H19
 of SO₂ and aerosol S in, air-borne photom. detector for, 6H15
 of SO₂F₂ in, ion chrom., 5H18
 of tetra-alkyl-lead compounds in, by a.a.s., 5H5
 of ¹³³Xe in, detector system for, 1H11
 of ZnO in, photom., 3H15
 identn. and detmn. of alkyl selenides in, by cryogenic trapping - g.c. - a.a.s., 1H34
 of org. pollutants in, methodology for, 5H24
 of PAH in, by g.l.c., 3H36
 lectures on causes, effects and control of pollution of, 2A3
 m.s. study of pollutants in, 6A7C
 monitoring of combustible gases in, 1H9
 of contaminants in, requirements for flexible programmes for, 3H1
 of formaldehyde in, continuous colorim., 1H30
 of hazardous substances in, 2A1C
 of org. compounds in, review of personal monitors for, 3H21
 of pollution of, review of use of i.r. and Raman spectroscopy in, 2H2
 of purity of, by g.c., 5H10
 personal sampler for NO₂ and SO₂ in, 5H9
 pollution of, review, 4A2
 recommended MAK values for concn. of toxic substances in, and requirements for compliance control, review, 2H7
 sampling of, 'Bell-Vol' device for, 1J3
 constant-flow, using vacuum regulation, 6H5
 systems for, review, 2H6
 of acidic gases from, impregnated filters for, 5H20
 of aerosols in, calibration equipment for, 1H6
 detmn. of collection efficiency of device for, 1H7
 efficiency for large wind-borne particles of devices for, 5H7
 of chlorinated hydrocarbons from, comparison of adsorbents for, 1H39
 of dust in, errors associated with use of filters for, 5H8
 of ethanediol and ethanediol deriv. in, using Amberlite XAD resins, 3H28
 of formaldehyde in, with passive colorim. monitoring badge, 2H29
 of particulate in, efficiencies of inlets for devices for, 1J4
 of pesticides in, sorbents for, 4H28
 of vapours in, fundamentals of passive, review, 4H18
 sampling and g.c. detmn. of organosulphur compounds in, 1H33
 sepn., identn. and detmn. of odorous impurities in, by g.c., review, 5H25
- Ajuga spp.**, isolation of phytoecdysones from, by h.p.l.c. and droplet counter-current chrom., 2D185
- α-Alanine**, detmn. in brain tissue, by g.l.c. of pentafluoropropionyl deriv. of hexafluoropropyl ester - m.s., 1D175
 in prostatic capsules, by h.p.l.c., 2E33
 of D-, in foods, by g.l.c. of N-pentafluoropropionyl deriv. of isopropyl ester, 1F7
 temp.-dependence of secondary-ion emission from, 5A3C
 —, **dansyl-**, detection, by flow-injection - chemiluminescence method, 6D209
 —, **4-hydroxy-3-methoxyphenyl-**, detmn. in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D155
 —, **phenyl-**, detmn. in blood-spot samples on filter-paper, fluorim., 6D210
 of D-, in foods, by g.l.c. of N-pentafluoropropionyl deriv. of isopropyl ester, 1F7
 sepn. of enantiomers of, by h.p.l.c. of N-acetyl deriv. of methyl ester, 4J34
 —, —, **derivatives**, sepn. and detmn. of fluoro-, in proteins, by h.p.l.c. of phthalaldehyde deriv., 5D139
- β-Alanine**, detmn. in brain tissue, by g.l.c. of pentafluoropropionyl deriv. of hexafluoropropyl ester - m.s., 1D175
 in presence of related compounds, by h.p.l.c., 4D215
- Alanine aminotransferase**, see under *Enzymes, specific*
- Albumin**, analysis of serum, high-performance size-exclusion chrom., 4E34
 detection of folate-binding protein in preparations of serum, 5D165
 detmn., acceptable limits for precision and accuracy in, 3D3
 evaluation of Hitachi 705 analyser for, 4D10, 4D11
 turbidim., comparison of sensitivities of methods for, 2D243
 with centrifugal analyser, comparison of standardisation techniques for, 1D13
 with Cobas-Bio centrifugal analyser, 2D20
 in seminal plasma, immunonephelom., 4D241
 in urine, by enzyme immunoassay, 2D251
 by latex immunoassay, 1D203
 of Pb-labelled, and of albumin antiserum, by voltamm. immunoassay, 1D204
 of mercapto-groups in serum, spectroph., 6D236
 of serum, by 'metachromasis', 2D250
 gel electroph., 5D158
 purification, with use of activated carbon beads, 3D253
 sepn. from cytochrome c, liquid chrom., 1D233
 from other proteins, by h.p.l.c., 3D234
 of serum, from haemoglobin, gel chrom., 1D202
- Albumin—continued**
 study of binding of drugs to serum, by flow-injection - fluorim. method, 1D48
- Alcohol dehydrogenase**, see under *Enzymes, specific*
- Alcohols**, see under *Polyols*
 analysis of oxyethylated fatty, by g.l.c., 3C94
 characterisation of adducts with oxirane of fatty, by h.p.l.c., 5C80
 concn. from air, comparison of adsorbents for, 3H23
 detection, by h.p.l.c., 1C110
 colour reaction for, 3C21
 fluorescent labelling reagent for, 2C8
 in samples from patients with various diseases, by g.l.c., review, 6D2
 detmn. in anaerobic fermenter contents, bacterial cultures, digestive contents or silage juices, by g.l.c., 2D132
 in brewing materials, by g.c., review, 6F58
 in products of hydroformylation of higher alkenes, i.r. spectrosc., 2C17
 of absolute configuration and enantiomeric composition of α-deuterated, 1C11
 of double-bond position in monounsaturated primary, by g.c. - m.s., 3C17
 of long-chain, in cold-rolling oils, by h.p.l.c., 6C58
 identn., by chemical-ionisation m.s., 2C7
 by g.c., 3C1
 in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
 of isomeric, by m.s. study of esters, 6C15
 of origin of natural, by natural-abundance ²H n.m.r., 2C19
 sepn., by g.c., 1J75, 2J63
 of enantiomeric, by g.l.c., comparison of deriv. for, 5D93
 by g.l.c. of acetyl or trifluoroacetyl deriv., 3C22
 by h.p.l.c., 5J36
 of enantiomeric secondary, by g.c., derivatisation reagents for, 4C4
 —, **amino-**, sepn. of enantiomeric, by h.p.l.c., 1E63
 —, **C₆ to C₉**, identn. and detmn., by reaction g.c. - m.s., 2C18
- Aldehydes**, analysis, applications of over-pressured t.l.c. in, 5A2C
 by h.p.l.c. of azines - fluorim., 3H30
 of mixtures of, by h.p.l.c. of deriv. formed with 5,5-dimethyl-cyclohexane-1,3-dione, 2C26
 detmn., by h.p.l.c. with on-line solid-phase reduction, 5C19
 in air, comparison of methods for, 5H27
 in sea-water, review, 1H72
 of H₂O in, by Karl Fischer method, 1C14
 identn., by chemical-ionisation m.s., 2C7
 by g.c., 3C1
 in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
 identn. and detmn. in environmental materials, by triple-quadrupole m.s., 4H68
 on-line reduction of, in h.p.l.c., 4C14
 sepn. and detmn. in ozonolysis products of phenol, by h.p.l.c., 4H76
 —, **aliphatic**, detmn. in biol. materials, by h.p.l.c., 6A5C
 of low-mol.-wt., in car-exhaust gases, by g.l.c., 2C73
 of saturated C₁ to C₉, in oxidative products of polyethylene, by g.c. and g.c. - m.s., 2C113
 —, **aromatic**, sepn. of phenolic, from anthocyanidins, anthocyanins and related substances, by h.p.l.c., 4D270
 t.l.c. - fluorim. study of, 3C47
 —, **C₁ to C₉**, detmn. in rendering emissions, by h.p.l.c. of 2,4-dinitro-phenylhydrazones, 3H29
 —, **C₁₂ to C₁₈**, detmn., by bioluminescence method, 4D148
 —, **polycyclic aromatic**, detmn. in air-borne dust, by g.c. and g.c. - m.s., 4H26
 identn. in emissions from straw or wood combustion, liquid chrom. - g.c. - m.s., 1H37
- Aldicarb**, detection, by g.c. - chemical-ionisation m.s., 2G16
 sepn. from other carbamates, by t.l.c., 1G36
 —, **sulphone**, detmn., inter-laboratory study of, 5G25
- Alditols**, analysis, automated ion-exchange chrom. of borate complexes - fluorim. (or spectroph.), 2D118
 —, **acetates**, sepn. from plasticisers and other contaminants, by g.c., 6D152
 sepn. and identn. of partially methylated, by g.c. (or g.c. - m.s.) of acetyl deriv., 2C25
- Aldosterone**, detmn. in blood plasma, accuracy and precision of results in, 4D172
 by h.p.l.c., 3D72
 by r.i.a., 2D183
 in presence of other C₂₁ steroids, by h.p.l.c., 1D142
 in urine, by h.p.l.c., automated, 4D178
 sepn. from other steroids in blood plasma or urine, by t.l.c., with use of inert markers, 1D145
- Aldoxycarb**, detmn. in soil or water, by h.p.l.c., 5G38
- Aldrin**, detmn., titrim., 4G17
 in pesticide mixtures, by automated g.c. - m.s., 2G12
 in sewage sludge, by g.l.c., 2H109
 sepn. from PCB, liquid chrom., 4G18
- Alfentanil**, detmn., by r.i.a., 1D68
- Algae**, detection of phospholipase D in extracts of, by t.l.c., 5D217
 of toxin of, by h.p.l.c., 2H90
 detmn. of ascorbic acid in, by h.p.l.c., 4D304
 of C and N in org. form in, and of stable-isotope ratios in, by m.s., 2D50

Algae, determination—continued

- of ^{14}C in exudates from, by u.v. photo-oxidation - liquid scintillation counting, 2D51
- of chlorophyll *a* in suspensions of, fluorim., 5D178
- Alginate**, detmn. in beer, electroph., 6F67
- Alimentary pastes**, detmn. of H_2O in noodles, spectroph., 6F12
- of wheat germ in, immunonephelom., 5F32
- Alizarin-9-imine**, as acid - base indicator, 1A14
- Alkadienes**, detmn. in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113
- Alkali metals**, detmn., stripping potentiom., automated, review, 4J141
- in germanium, by a.a.s., 6B98
- in sediments, acid-extraction - a.a.s. method unsuitable for, 4H41
- of Ca in, by a.a.s., 4B30
- sepn., ion-exchange chrom., 6B27
- solvent extraction of, by crown ethers having uncharged co-ordinating flexible side-chains, 4A7
- Alkali-metal salts**, detmn. of Ca in, by a.a.s., 4B30
- of Cl^- in, by isotope dilution - m.s., 3B24
- Alkaline-earth metals**, detmn., stripping potentiom., automated, review, 4J141
- in sediments, acid-extraction - a.a.s. method unsuitable for, 4H41
- Alkaloids**, see also *Glycoalkaloids*; *Purine alkaloids*; *Pyrrolizidine alkaloids*
- analysis, applications of over-pressured t.l.c. in, 5A2C
- by h.p.l.c., review, 4F3
- by two-dimensional t.l.c., review, 5J74
- ^{13}C n.m.r. studies of diterpene, review, 1E30
- detection, by t.l.c., 3E10
- detmn., by ^{19}F n.m.r. of pentafluoropropionyl deriv., 3E9
- in pharmaceutical preparations, by t.l.c. - g.l.c. of TMS deriv., 4D53
- of hydrogenated ergot, in blood plasma, by t.l.c., 6A5C
- extraction from plant material, 1E17
- sepn., paper chrom., 1E16
- t.l.c. of, 2E72B
- Alkane-2,3-diols**, sepn. of *erythro*- and *threo*-, by g.l.c. of TMS ethers, 6D153
- Alkenes**, see also *Cycloalkenes*
- concn. from air, comparison of adsorbents for, 3H23
- detmn. in air, selective ion source for use in, 6H21
- in gasoline or naphtha, by automated g.c., 1C77
- in gasoline fractions, by g.l.c., 3C77
- in products of oxidative pyrolysis of polyethylene, by g.c. - m.s., 2C113
- in 'tar balls', by g.c., 1H76
- identn., by chemical-ionisation m.s., 2C7
- , C_1 to C_8 , sepn. and detmn. in liquefied petroleum gas, by g.c., 1C73
- , C_2 to C_8 , detmn. in tetraethyl-lead, by g.l.c., 2C72
- , C_6 to C_{11} , detmn. in air, by g.l.c., 3H25
- , **chloro-**, detection, by h.p.l.c., 1C110
- detection and detmn., by h.p.l.c., 5C10
- g.l.c. study of, 5C9
- , **n-**, g.c. study of, 2C13
- , **perfluoro-**, sepn. from perfluoroalkenes and from each other, by g.l.c., 6C12
- Alkanesulphonates**, detmn., by spectroph. titration, 2C90
- Alkanethiols mercury salts**, detmn., by continuous-flow reduction - liquid chrom. - a.a.s., 3C41
- Alkanolamines**, sepn. and detmn., liquid chrom., 5C23
- Alkenes**, see also *Cycloalkenes*
- analysis of methanol-derived, by g.c., 3C19
- detmn. in gasoline or naphtha, by automated g.c., 1C77
- in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113
- of alcohols in products of hydroformylation of higher, i.r. spectros., 2C17
- of double bonds in, and of isomer purity of, 4C49
- of double-bond position and geometry of, by m.s. of Diels - Alder adducts, 2C15
- selective stripper for, 6H23
- sepn., by g.s.c., 1C19
- of enantiomeric, by h.p.l.c., 1C18
- subtractions for, 1C20
- , C_1 to C_8 , sepn. and detmn. in liquefied petroleum gas, by g.c., 1C73
- , C_2 to C_4 , detmn. in air, by g.c., 6H22
- , **perfluoro-**, sepn. from perfluoroalkanes and from each other, by g.l.c., 6C12
- Alk-1-enes**, g.c. - m.s. data and sensor quality of acid-decomposition products of, 6F17
- Alk-1-enesulphonates**, h.p.l.c. study of, 4C63
- Alkynes**, C_1 to C_5 , sepn. and detmn. in liquefied petroleum gas, by g.c., 1C73
- Allantoin**, sepn. from other degradation products of adenine nucleotides, by t.l.c., 4D284
- Allergens**, analysis, by h.p.l.c., 1D3
- Allobarbitone**, detmn., non-aq. titrim., 5E27
- Allopurinol**, detmn. in blood plasma or urine, by h.p.l.c., 6D262
- Alloys**, analysis, applications of extraction methods in, review, 4B4
- by secondary-neutral m.s., 3J93
- of surfaces of binary, Auger-electron spectrom., 2B7

Alloys—continued

- characterisation, by XRF, 5J102
- detmn. of elements in samples applied in electron technology, by a.a.s., 2B177
- of thickness and element concn. of coatings of, by XRF, 2B150
- identn. of corrosion products on surfaces of, with electron micro-probe and X-ray diffractom., 3B135
- of scrap, review, 1B1
- Allyl alcohol, 1,1-dimethyl-**, detmn. in presence of related compounds, by g.c., 3C96
- Aloe-emodin**, detection, by t.l.c., 5E18
- Alpha-HCH**, detmn. in human milk, by g.l.c., 5D84
- in water, by g.c. - m.s., 6H62
- identn. in fish tissues, liquid chrom. - g.c., 2F21
- Alprazolam**, sepn. from related compounds, by h.p.l.c., 1D71
- Alprenolol**, detmn. in presence of timolol, by h.p.l.c., 5J47
- sepn. of enantiomers of, by h.p.l.c., 1E63
- Altenuene**, detection in bread or cereals, by t.l.c., 2F19
- Alternariol**, detection in bread or cereals, by t.l.c., 2F19
- **monomethyl ether**, detection in bread or cereals, by t.l.c., 2F19
- Aluminium**, analysis of surface layer of oxide films on, X-ray photoelectron spectrom., 4B12
- concn. from sea-water, by flotation using two surfactants, 5H50
- from water, on cellulose, 5H51
- detection, reaction for, 5B21
- detmn., by a.a.s., comparison of methods for, 3B11
- suppression of Cl^- interference in, 4B15
- by XRF, 2J86
- complexom., semi-automated, 4J16
- emission spectrom., using electrothermal carbon-cup vaporisation, 1J127
- fluorim., using reagent immobilised on cellulose, 4B62
- photoacoustic spectrom., with collection of quinolin-8-olate in naphthalene, 2B52
- spectroph., 2B51, 3A9, 3B58, 3H50, 4B61, 5B65
- in alloys, ion-exchange chrom. - a.a.s., 6B148
- in Al - Mo - Ni alloys, complexom., 4B21
- in ash, spectrosc., 3B16
- in beer, by a.a.s., 6F62
- in biol. materials, emission spectrom., matrix effects in, 1D20
- standards for use in, 2D34
- spectrogr., 5D12
- in biol. tissues, emission spectrom., 2D35
- in blood, differential pulse polarogr., 3H51
- in blood plasma, by a.a.s., identn. of contamination sources in, 3D40
- in blood serum, by a.a.s., 2D49
- in brine, by a.e.s., 4B152
- in coke, by XRF, sample preparation for, 6B189
- in copper alloys, emission spectrom., arc excitation as source of error in, 4B42
- in germanium, by stepwise laser photo-ionisation, 1B109
- in graphite, emission spectrom., with pre-concn. on chelating resin, 2B87
- in iron alloys, by XRF, 4B187
- in lime, by XRF, sample preparation for, 6B189
- in liquid samples, spectrogr., 2J108
- in manganese silicates, by a.a.s., 6B96
- in minerals, ores or rocks, by XRF, 5B172
- comparison of methods for, 1B191
- in Nd:Al Y garnet, by XRF, 3B178
- in nickel alloys, emission spectrom., 2B157
- in periclase, spectrogr., 2B166
- in petroleum or petroleum products, by n.a.a., as indication of catalyst-residue content, 1C85
- in pharmaceutical preparations, by n.a.a., 6E5
- in plants, by XRF, 1G19
- in rutile concentrates, spectrogr., 2B105
- in sea-water, fluorim., by a.a.s., 6B96
- in sediments, by n.a.a., 3H45
- in serpentine, with electron micro-probe, 5B176
- in sewage sludge, by a.a.s., sample pre-treatment for, 4H89
- in silicates, by XRF, 2B91
- ion-exchange chrom. - a.a.s., 6B148
- in silicon, by charged-particle activation, 5A4C
- by photoluminescence method, 2B88
- in soil, emission spectrom., 2G5
- in steel, emission spectrom., 4B169
- spectroph., 1B165
- in titanium alloys, ion-exchange chrom. - spectroph., 1J60
- in uranium, emission spectrom., 1B95
- in urine, by a.a.s., 2D49
- differential pulse polarogr., 3H51
- in water, by a.a.s., using stabilised-temp. platform furnace, 1H47
- differential pulse polarogr., 3H51
- emission spectrom., 2A2C
- in welding fluxes, spectrogr., 1B68
- of ^{26}Al in air-borne dust, by m.s., 1H16
- of Cu, Pb and Mn in, by a.a.s., 1B72
- of distribution of, in alloys, by laser irradiation - XRF, 2B146
- of impurities in, by n.a.a., 5B8

- Aluminium**, determination of impurities in—continued
 emission spectrum., 5B66
 spectrogr., 2B53
 of lanthanoids in, emission spectrum., 6B60
 of Mn in, by a.a.s., 6H68
 of O in, selectivity of dissolution method for, 1B73
 of sol., in steel, emission spectrum., 1B161
 of Th and U in, by secondary-ion m.s., 1B204
 ion-exchange study of, 6B14
 preparation of self-supporting anodic-barrier films on, for back-scattering analysis, 5B67
 sepn. from Ga, ion-exchange chrom., 2B56
 from lanthanoids, paper chrom., 1B82
 from other elements, ion-exchange chrom., 5B16
 from Zr, liquid chrom., 2B16
- Aluminium, reagents for**, Alizarin red S in presence of polyvinylpyrrolidone, 5B65
 Alizarin S, 5B21
 aluminon, 1B165
 3-(5-bromo-2-pyridylazo)chromotropic acid, 3A9
 bromopyrogallol red - diphenylguanidine, 2B51
 bromopyrogallol red - tetradecyltrimethylammonium bromide, 3H50
 chlorophosphonazo I, 4B61
 chromazol KS, 1B68
 Chrome Azurol S in absence or presence of Septonex, 3B58
 morin, 4B62
 quinolin-8-ol, 4H51
- Aluminium alloys**, detmn. of C in plating films of, laser micro-spectrosc., 6B134
 of Ce and La in, spectrogr., 2B66
 of Cl, F, N, O, P and S in, by n.a.s., 6B61
 of Cu, Pb and Mn in, by a.a.s., 1B72
 of elements in, by a.a.s., 3B60
 comparison of methods for, 1J11
 emission spectrum., 5B66
 spectrogr., 1B71
 of In in, spectrogr., 1B74
 of Fe in, liquid chrom. - spectrogr., 3B131
- , **Al - Cu**, detmn. of elements in, with electron micro-probe, correction methods for, 2B9
- , **Al - Cu - Fe - Mn**, detmn. of Mn in, spectrogr., 6B143
- , **Al - Mg**, detmn. of Cu in, spectrogr., 1B35
- , **Al - Mo - Ni**, detmn. of elements in, complexom., 4B21
- , **Al - Ni**, detmn. of Ni in, spectrogr., 5B155
- Aluminium arsenide**, detmn. of concn. profile of, in $Ga_{1-x}Al_xAs$ films, by cathodoluminescence method, 1B207
- Aluminium chloride**, detmn. of chemical forms of ^{35}S in reactor-irradiated mixtures with iron(III) chloride of, 3B115
- Aluminium complexes**, with benzoylacetone or trifluoroacetylacetone, detmn. in presence of related compounds, by t.l.c. - densitom., 5B17
 with catechol violet and hexadecyltrimethylammonium ions, 1B70
 with Eriochrome cyanine R, 1B69
 with trifluoroacetylacetone, effect of ligand doping on g.c. of, 2C44
- Aluminium fluoride**, detmn. of AlF_3 - NaF ratio in aluminium electrolyte, titrim., 5B70
 of F, Fe, P, Si and S in, by XRF, 6B62
 of P in, BSI a.a.s. method for, 5B71
- Aluminium oxide**, see also *Corundum*
 detection of impurities in, spectrogr., 1J122
 detmn. of Cl⁻ in catalysts of, amperom., without applying external e.m.f., 4B148
 of elements in, spectrogr., comparison of carrier-distillation and buffer techniques for, 5B68
 of Pd in carrier, after extraction of noble metal from used catalyst, 6B192
 particle size analysis, with photoelectric colorimeter, 3J156
- Aluminium silicide**, detmn. of Si in, titrim., 3B87
- Aluminium sulphate**, detmn. of Ca in, by a.a.s., 5B69
 of Pb in, spectrogr., 5B103
- α -Amanitin**, detmn. in blood serum, by h.p.l.c., 3D139
 identn. and detmn. in blood serum, by h.p.l.c., 1D59
- Amaryllidaceae spp.**, detmn. of lycorine in, fluorim. or u.v. spectrogr., 6E19
- Amatoxins**, detmn. in biol. fluids, by r.i.a., 5D89
- Americium**, detmn. in biol. materials, sea-water or sediments, by co-pptn. with oxalate - ion-exchange chrom. - α -spectrum., 1H61
 in spent nuclear fuels, by isotope dilution - m.s., 2B80
 of ^{241}Am in biol. or environmental materials, by ion exchange - electro-deposition - α -spectrum., 3G12
 ion-exchange study of, 1B98
 sepn. from Cm and Pu, by h.p.l.c., 3B83
 from leachant, by Ca oxalate co-pptn., 4B101
 from other fission products, by solvent extraction, 4B102, 5B89
 of ^{241}Am from Pu in environmental samples, extraction chrom., 6A5C
 solvent extraction of, with bis-(2-ethylhexyl) phosphate - P_2O_5 in xylene, 5B92
 with sulphoxides, effects of org. additives in, 2B85
- Amethocaine**, detmn. in pharmaceutical preparations, by h.p.l.c., 4E68
- **hydrochloride**, detmn., non-aq. titrim., 5E2
 in pharmaceutical preparations, spectrogr., 1E61
- Amides, aromatic**, t.l.c. study of, 6C37
- Amidopyrine**, detmn., by oscillography, titration, 6C9
 with its microsomal metabolites, by h.p.l.c., 6D85
 in pharmaceutical preparations, by h.p.l.c., 4E40, 5E28
 in presence of codeine, ephedrine and quinine, by isotachopheresis, 2E2
 isolation of photolysis product from soln. of, by t.l.c., 3E43
- Amikacin**, detection in blood serum, solid-phase reagent strip for, 6D49
 detmn. in presence of other aminoglycosides, by h.p.l.c., 4D64
- Amine oxidase (flavin-containing)**, see under *Enzymes, specific*
- Amines**, see also *Diamines; Polyamines*
 adsorbents for primary and secondary, in reaction g.l.c., 1C33
 analysis of bacterial, by g.c., 6D195
 of biogenic, 1D281B
 by h.p.l.c. of deriv. formed with 4-fluoro-7-nitrobenzofurazan, 1D174
 detection, by h.p.l.c. of deriv. formed with 4-fluoro-7-nitrobenzofurazan, 5D117
 in samples from patients with various diseases, by g.l.c., review, 6D2
 detmn., by ^{19}F n.m.r. of pentafluoropropionyl deriv., 3E9
 by oscillography, titration, 6C9
 by titration of *S*-benzylthiuronate deriv., 4C3
 spectrogr., 1C10
 derivatisation for, 3D213
 with modified thermal-energy analyser, 1C34
 in air, by g.l.c., 5H38
 of absolute configuration and enantiomeric composition of α -deuterated, 1C11
 of biogenic, in brain tissue, with their metabolites, liquid chrom., 6A5C
 in foods, ion-exchange chrom., 4F9
 with amino-acid auto-analyser, 2F4
 with their metabolites, by h.p.l.c., 4D192
 of long-chain, in water, BSI spectrogr. method for, 5B32
 of mono-, in neuronal systems, applications of formaldehyde-induced fluorescence in, review, 2D191
 of mono- and di-functional, by g.c. of P-containing deriv. - m.s., 2D104
 of primary or secondary, in blood plasma or urine, by g.l.c. of pentafluorobenzoyl deriv., 4D52
 of secondary, fluorim., 2C39, 4C20
 effect of temp. on stability of biogenic, 4D188
 formation of *N*-trifluoroacetylaminomethyl deriv. during trimethylsilylation of secondary, 1C16
 g.c. - m.s. study of biogenic, review, 1D150
 g.c. - m.s. and g.c. - triple quadrupole m.s. studies of priority pollutants, 3H5
 identn. and detmn. in environmental materials, by triple-quadrupole m.s., 4H68
 sepn. of enantiomeric, by h.p.l.c., 5J36
 by h.p.l.c. of *N*-(3,5-dinitrobenzoyl) deriv., 2J22, 6J27
 of enantiomeric secondary, by g.c., derivatisation reagents for, 4C4
 sepn. and detmn., by g.l.c., derivatisation with chloroformate esters for, 1C32
 of primary, by h.p.l.c. of phthalaldehyde deriv., 5C21
 of primary and secondary, by g.c. of trichloroacetyl deriv., 2C1
 sepn. and identn., paper chrom., 6J48
- , **aliphatic**, adsorption of chlorides of tertiary, by anionites from aq. org. media, 2C37
 analysis of primary, liquid chrom. - fluorim., 1J56
 detection of primary, in presence of secondary amines, colour reaction for, 6C23
 detmn. of primary and secondary, in beer, by h.p.l.c. of deriv. formed with 7-chloro-4-nitrobenzofurazan, by h.p.l.c. - laser fluorim., 5F64
 of secondary, in fish or meat products, by h.p.l.c., 1F20
 of total N in, colorim., with use of Se catalyst, 6C5
 sepn. and detmn., liquid chrom., 5C23
 of tertiary, by h.p.l.c., 5C22
 sepn. and identn., by h.p.l.c. or t.l.c., fluorescent reagent for, 1C31
- , ***N*-oxides**, detmn., polarogr., 3C38
- , **aromatic**, detmn., enzyme electrodes for, 6J149
 spectrogr., 1E11
 in air, by h.p.l.c., 3H38
 in water, by h.p.l.c., with pre-concn. on Amberlite XAD-8 resin, 3H78
 of migration of primary, from polymeric coatings, review, 6F18
 of tertiary, in triphenylmethane dyes, by h.p.l.c., 6F14
 h.p.l.c. study of metabolites of, 6D133
 sepn., by h.p.l.c., 5C39
 liquid chrom., 4J30
 t.l.c. study of, 6C37
- , **polycyclic aromatic**, detection in h.p.l.c. eluates, by chemiluminescence method, 5C45
 m.s. - m.s. study of, in coal-derived liquids, 1C88
- Amino-acids**, analysis, applications of over-pressured t.l.c. in, 5A2C
 by g.c., review, 1J67
 by g.l.c. of *N*(OS)-acyl alkyl esters, derivatisation procedure for, 2D213
 by g.l.c. of *N*(OS)-trifluoroacetyl deriv. of propyl esters, 2D214

Amino-acids, analysis—continued

- by h.p.l.c., optimisation of conditions in, 6A11
 - review, 4F3
 - ternary-gradient system for, 6D207
 - by h.p.l.c. of dansyl deriv., 1D170
 - comparison of elution systems for, 1D169
 - by h.p.l.c. of deriv. formed with 4-fluoro-7-nitrobenzofurazan, 1D174
 - by h.p.l.c. of phthalaldehyde deriv., with automated pre-column derivatisation, 2D209, 5D134
 - by h.p.l.c. of *N*-trinitrophenyl deriv., 4D208
 - by h.p.l.c. - amperom., 3D211
 - by h.p.l.c. - enzymic - amperom., 2D29
 - by reversed-phase h.p.l.c., choice of buffer for, 4D207
 - by t.l.c., recovery of material from plates for, 4D213
 - by t.l.c. of phenylthiohydantoin deriv. - scanning densitom., 5J76
 - cause of poor recovery of basic amino-acids in, 4D219
 - liquid chrom. - fluorim., 1J56
 - of blood or blood-plasma, by h.p.l.c., 6D208
 - of blood-plasma, by h.p.l.c. of phthalaldehyde deriv., 1D168
 - by h.p.l.c. of phthalaldehyde - ethanethiol deriv., 1D171
 - effect of sampling site in, 3D209
 - ion-exchange chrom. - spectroph., interference by EDTA from Vacutainer tubes in, 4D210
 - of brain-tissue, by g.l.c. of pentafluoropropionyl deriv. of hexafluoropropyl esters - m.s., 1D175
 - of free, in leaves or phloem exudate from palms, by t.l.c. of dansyl deriv., 4D212
 - of plant, by h.p.l.c. of phthalaldehyde deriv., 2D210
 - of urinary, by h.p.l.c. (or t.l.c.) of dansyl deriv., 3D212
 - ¹¹³Cd and ¹³C n.m.r. studies of, 5D133
 - characterisation, deriv. spectros., review, 3D6
 - detection, by h.p.l.c. of deriv. formed with 4-fluoro-7-nitrobenzofurazan, 5D117
 - detmn., by indirect a.a.s., 4D214
 - by triple-quadrupole m.s., 3D11
 - fluorim., as phthalaldehyde - triphenylmethanethiol deriv., 5D137
 - potentiom., with trinitrobenzenesulphonate-selective electrode, 6J148
 - spectroph., derivatisation for, 3D213
 - in fish tissues during freeze-storage, review, 3F27
 - in sea-water, review, 1H72
 - in sparkling wine, by h.p.l.c. of dansyl deriv., 2F58
 - of D-, in foods, by g.l.c. of *N*-pentafluoropropionyl deriv. of isopropyl esters, 1F7
 - of enantiomeric impurities in α-, by h.p.l.c. of diastereoisomeric amides, 2E54
 - of free, in sea-water, by h.p.l.c. of phthalaldehyde deriv., 3H91
 - isolation from protein hydrolysates, as arenesulphonates, 3D210
 - secondary-ion emission from ultra-high-vacuum-deposited layers on metals of, 5A3C
 - sepn., by reversed-phase t.l.c., 2D211
 - by t.l.c., 2D212
 - of acidic, from mixed amino-acid soln., by selective sorption, 6D213
 - of enantiomeric, by h.p.l.c., 1C1, 5D135, 5J36
 - by h.p.l.c. of *N*-acetyl or *N*-3,5-dinitrobenzyl deriv. of methyl esters, 6J27
 - by h.p.l.c. of *N*-(3,5-dinitrobenzoyl) deriv., 2J22
 - ligand-exchange chrom., 1D173, 4D209, 5D136
 - in blood serum, by g.c. of pentafluoropropionyl deriv. of propyl esters, 6D211
 - of enantiomeric *N*-methyl-, by g.c., derivatisation reagents for, 4C4
 - of enantiomeric methyl esters of *N*-acetyl- or *N*-benzoyl-, by h.p.l.c., 2J23
 - of urinary, by t.l.c., 4D211
 - sepn. and detmn. in tissue-culture cells, by h.p.l.c. of phthalaldehyde deriv., 2D208
- Aminoacylase**, see under *Enzymes, specific*
- Aminoacyl-tRNA synthetase**, see under *Enzymes, specific*
- Amino-groups**, detmn. of terminal, in dyed polyamides, spectroph., 3C104
- δ-Aminolaevulinic acid dehydratase**, see *Enzymes, specific*, porphobilinogen synthase
- δ-Aminolaevulinic acid synthase**, see under *Enzymes, specific*
- Amino-nitrogen**, detmn. in raw materials of marine origin, spectroph., 2F23
- Amino-peptidases**, see under *Enzymes, specific*
- Amino-sugars**, analysis, by g.l.c. of corresponding alditol acetates, 2D120
- of bacterial cell-wall, by g.c. of corresponding alditol acetates, 2D121
- of glycoprotein, with amino-acid analyser, 1D213
- Amiodarone**, detmn. in biol. fluids, by h.p.l.c., 6D109
- in biol. tissues, blood plasma or urine, with its metabolite, by h.p.l.c., 5D63
- in blood plasma, with its metabolite, by h.p.l.c., 1D87
- in blood serum, with its metabolite, by h.p.l.c., 3D112
- **hydrochloride**, sepn. from its intermediates, by t.l.c., 3E56
- Amiripryline**, detection, reagents for, 4E44
- detmn. in blood plasma, by g.c., 2D85
- by g.l.c., 3D95
- by h.p.l.c., 6D95

Amiripryline, determination—continued

- of free and bound, in blood plasma or saliva, by dialysis - g.c. - m.s., 2D85
- **maleate**, sepn. from imipramine, by h.p.l.c., 6E43
- Ammine complexes**, analysis, by pyrolysis - g.c., reference materials for, 2A12
- Ammonia**, detmn., amperom., microbial sensor for, 6J13
- by micro-diffusion - spectroph., 5B112
 - by thin-film enzymic - spectroph. method, 4D198, 4D199
 - in air, by g.c., low-temp. sampling technique for, 1J6
 - in air or gas mixtures, photom., sensor tablets for, 2H14
 - in blood, by micro-diffusion - colorim., 5D20
 - in gas mixtures, GASFET sensor for, 1J189
 - in gas mixtures from combustion or pyrolysis of plastics, with ion-selective analyser, 6J170
 - in gases with simple molecular structure, optoacoustic spectrom., 4H4
 - in kidney-tubule fluid or urine, fluorim., 1D45
 - in poly(ethylene oxide), by head-space g.c., 1C109
 - in presence of 4-aminophenol and aniline, spectroph., 1C50
 - of dimethylamine, hydrazine, methylhydrazines and H₂O, by g.l.c., 1B117
 - in pyrolysis gases, reference material for, 2A12
 - in rain, air-borne instrumentation for, 3H42
 - in sugar-factory products, automated, 5F21
 - in vacuum system, by m.s., 3J7
 - of O in liquid, by g.c., 3B101
- Ammonia-nitrogen**, detmn. in biol. materials, automated colorim., 3G13
- in blood plasma, potentiom., with ion-selective electrode, 6D37
 - in fertilisers, gas-phase mol.-absorption spectroph., 5G15
- Ammonium compounds, quaternary**, detmn., liquid chrom. - indirect u.v. photom., 4C21
- spectroph., 1E1
 - in wine, colorim., 1F51
 - laser micro-probe mass analysis of zwitterionic, 1A1C
- , —, **alkyltrimethyl-**, by h.p.l.c., 5C70
- , —, **benzylidimethyltetradecyl-, chloride**, see *Zephiramine*
- , —, ***N,N*-diethyl-*N*-methyl-2-(cyclohexylhydroxyphenylacetoxyl)ethyl-, bromide**, see *Metacin*
- , —, **tetra-alkyl-, bromides**, solvent extraction of, into 1,2-dichloroethane - alkane mixtures, 2C38
- , —, **tetrabutyl-, chloride**, m.s. - m.s. study of, 1J173
- , —, **tetraethyl-, hydroxide**, detmn., by oscillograph. titration, 6C9
- Ammonium dihydrogen phosphate**, detmn. of Mn in different oxidation states in monocrystals of, potentiom., 1B120
- Ammonium hydrogen sulphate**, detmn. in air-borne dust, by thermal analysis with flame-photom. detection, 4H16
- Ammonium ion**, detection, reaction for, 5B21
- detmn., flow-through enzymic - fluorim., 4D34
- potentiom., ion-selective electrode for, 6J143
 - measurement of response - time curves of ion-selective electrodes for, 2J172
 - in presence of K, i.r. spectroph., 6B112
 - in tobacco, automated, 5D3
 - in urine, ion chrom., 1D43
 - in waste water, portable test kit for, 2H93
 - in water or waste water, evaluation of automatic analyser for, 3H57
 - of ¹⁵N enrichment in, by enzymic - g.c. - chemical-ionisation m.s. method, 1D44
 - sepn. from NO₃⁻ for ¹⁵N detmn., by vacuum-distillation method, 3B99
 - solvent extraction of, with dibenzo-18-crown-6 and sulphonphthalein dyes, 3B25
- Ammonium iron(II) sulphate**, shelf life of soln. of, 2F59
- Ammonium magnesium phosphate**, detmn. in urinary calculi, inter-laboratory study of, 1D21
- Ammonium salts**, detmn. in urine, colorim., 1D43
- Ammonium sulphate**, detmn. in air-borne dust, by thermal analysis with flame-photom. detection, 4H16
- in zinc-plating soln., potentiom., with NH₃-selective electrode, 6B52
 - of H₂SO₄ in, spectroph., 3B114
- Ammonium tungstate**, detmn. of impurities in, emission spectrom., 2B134
- Amniotic fluid**, assay of acetylcholinesterase in, spectroph., 5D215
- of porphobilinogen synthase in cells of, fluorim., 5D231
 - of prolly dipeptidase in cells from, fluorim., 4D329
- detmn. of α-fetoprotein in, comparison of immunoassay methods for, 2D253
- effects of freezing and thawing and of sample-storage conditions in, 5D169
 - of 'lamellar body' phospholipids in particulate fraction of, semi-automated fluorim., 2D161
 - of α₂-macroglobulin in, by automated fixed-time kinetic - immunoturbidim. method, 4D247
 - of methylmalonic acid in, by isotope dilution - g.l.c. of methyl ester - m.s., 4D152
 - of phosphatidylcholine - sphingomyelin ratio in, effects of phospholipid saturation in, 2D159
 - necessity for acetone pptn. step in, 2D158
 - of phosphatidylglycerol in, enzymic - radiom., 6D181
 - of steady-state polarisation of 1,6-diphenylhexa-1,3,5-triene in, correction for endogenous fluorescence in, 2D160

Amniotic fluid—continued

- resolution of cholinesterase-banding patterns of, with use of commercial antisera, 2D290
- sepn. of phospholipids in, by t.l.c., 3D176
- sepn. and detmn. of peptides in, optical comparator for use in, 4D238
- of saturated and unsaturated phospholipids in, by t.l.c. - densitom., 2D156

Amodiaquine, detmn., titrim., 2E60**Amosite**, isolation from lung tissue or sputum, 5D23**Amoxapine**, detmn. in blood, gastric contents, liver homogenate or urine, by g.l.c., 1D75**Amoxicillin**, detmn. in blood plasma, with its metabolites, by h.p.l.c., 2D86**Amoxicillin**, detmn. in blood serum or urine, by h.p.l.c., 6D60**Amoxicillin**, in presence of polymers and other degradation products, spectroph., 6E27**— β -penicilloic acid**, h.p.l.c. study of rate of epimerisation of, 1E35**Amperometry**, flow-rate-independent cell for, 3J144**Amphetamine**, detmn. in biol. tissues, by g.l.c. of trifluoroacetyl deriv. - chemical-ionisation m.s., 6D101**Amphetamine**, in blood or urine, with related compounds, by r.i.a., 6D100**Amphetamine**, in blood plasma or urine, by h.p.l.c., 4D106**Amphetamine**, in urine, inactivation of lysozyme in EMIT-dau method for, 1D51**Amphetamine**, detmn. of analogues of, by g.c. of *N*-monotrifluoroacetyl deriv. - m.s., 2E50**Amphetamine**, identn. and detmn. of related illicit drugs, second-deriv. u.v. spectrom., 1E60**Amphetamine**, sepn. of enantiomers of, by h.p.l.c. of amide deriv., 4E48**Amphetamine**, solvent extraction of, with CHCl_3 , artefact formation in, 4D49**Amphetamine**, —, 4-bromo-2,5-dimethoxy-, psychoactivity of, and analytical data for, 5E34**Amphetamine derivatives**, identn., by g.c. of underivatized compounds, 3E6**Amphibole**, detmn. of thickness of fibres of, electron microsc., 1A1C**Amphotericin B**, detmn. in biol. tissues or blood plasma, by h.p.l.c., 6D119**Ampicillin**, detmn., cathodic-stripping voltamm., 2E23**Ampicillin**, in blood serum, fluorim., effects of storage conditions in, 4D61**Ampicillin**, in presence of oxacillin, fluorim. or spectroph., 6E26**Ampicillin**, of polymers and other degradation products, spectroph., 6E27**Amylases**, see *Enzymes, specific***Amylobarbitone**, detection in post-mortem blood, by g.l.c., 1D62**Amylobarbitone**, detmn., non-aq. titrim., 5E27**Amyloglucosidase**, see *Enzymes, specific*, exo-1,4- α -D-glucosidase**Anabasine**, *N*-nitroso-, detmn. in cigarette smoke or tobacco, by g.c. - m.s. or by g.l.c. - thermal energy analysis, 3D138**Anaesthetics**, identn., by g.c. of underivatized compounds, 3E6**—, local**, detmn. of active ingredient and stability of adrenaline- and noradrenaline-containing products, by h.p.l.c. - fluorim., 5E36**Analcime**, detmn. in synthetic mordenite, X-ray diffractom., 6B184**Analytical chemistry**, applications of ion-association reactions in, review, 5A10**—**, of Simplex method in optimisation of procedures for, 2A7**—**, bibliography on accuracy in measurement in, 5A11**—**, calculation of consensus values and weighing factors in, 2A8**—**, comparison of conventional and robust regression in data analysis in, 6A15**—**, computerised information-retrieval system for selection of optimum procedures in, 3A23**—**, definition of detection limit in, 6A12**—**, detmn. of lowest limit for techniques in, 4A4**—**, developments in, review, 5A6**—**, extensions of standard model for probabilistic supervised pattern recognition in, 6A18**—**, extraction of information from large data sets by pattern recognition in, 1A6**—**, generation of accuracy in, by reconstruction of sample, 5A12**—**, graphical analysis of probability distribution functions related to detection limit in, 3A4**—**, importance of dynamic range in, 5A13**—**, importance of pure chemicals in, review, 4A5**—**, index of reviews, 4A29B**—**, instrumentation in, 3J14B**—**, interactive calibration in, by recursive generalised standard-addition method, 6A16**—**, legislation specifying quality requirements or limiting concn., review, 5A8**—**, library search in, review, 1A22**—**, modified formula for calculation of 'reference change' in, 6A14**—**, multivariate calibration in, solved by partial-least-squares models in latent variables, 6A17**—**, optimisation of conditions for, review, 6A11**—**, precision and stability for generalised standard-additions method, 3A5**—**, recommendations for usage of terms in, 1A4**—**, report of conference on, 4A1**—**, review of industrial, 1A2**—**, surface and capillary effects on detection limits of chromophoric systems, 3A16**—**, teaching fundamentals of experimental design in, 6A9**—**, theoretical approach to enhancement of performance of laboratories for, 6A8**—**, validation of methods in, review, 5A9**Analytical standards**, ASTM, 1A33B**—**, buffer soln. for pH measurement, 5A19**—**, detmn. of elements in sulphide ore ASK-III, by spark-source m.s., 1B193**—**, fly ash as, 5A18**—**, for analysis of plant materials, 6D14**—**, for analysis of pyrolysis gases, 2A12**—**, for calibration of PIXE analysis systems, 6B6**—**, for chrom. analysis, 1J21**—**, for electron micro-probe analysis, 1A1C**—**, for environmental analysis, evaluation of, 2A2C**—**, for g.c. analysis, 2J4**—**, for gel-chrom. analysis of polymers, 3C109**—**, for iron and steel analysis, 4B170**—**, for laser micro-probe mass analysis, 1A1C**—**, for ns fluorescence decay-time measurements, 1J105**—**, for quantitative analysis of thin layers, 3A22**—**, for stable-isotope analysis, comparison of materials for, 2B121**—**, for XRF analysis of thin samples, 1J98**—**, in environmental quality assurance, review, 5H43**—**, phthalic acid as, for calibration of pH measurements, 3A17**—**, stability of, 1A3**—**, Tris as, for standardisation of H_2SO_4 soln., 1B115**—**, U-containing, 4B90**Anatabine**, *N*-nitroso-, detmn. in cigarette smoke or tobacco, by g.l.c. - thermal energy analysis, 3D138**Anatoxin a**, detection, by h.p.l.c., 2H90**Andrographolide sodium bisulphite**, detmn. in pharmaceutical preparations, partition chrom. - spectroph., 4E59**Androsta-1,4-diene-3,17-dione**, identn. and detmn. in mycobacterial cholesterol fermentation products, by mass-analysed ion-kinetic-energy spectrom., 1D139**Androstane-3,17-diol**, differentiation of stereoisomers of, mass-analysed ion-kinetic-energy spectrom., 2D171**5 α -Androstane-3 α ,17 β -diol**, detmn. in urine, by g.l.c. of TMS deriv., 4D179**Androst-4-ene-3,17-dione**, detmn. in blood plasma, liquid chrom. - r.i.a., 1D140**—**, in testicular perfusate, by h.p.l.c., 2D180**—**, in urine, by h.p.l.c., automated, 4D178**—**, identn. and detmn. in mycobacterial cholesterol fermentation products, by mass-analysed ion-kinetic-energy spectrom., 1D139**5 α -Androst-2-en-17-one**, detmn., u.v. spectroph., 3E34**5 α -Androst-3-en-17-one**, detmn., spectroph., 3E34**Androst-5-en-17-one**, 3 β -hydroxy-, detmn. in urine, by h.p.l.c., automated, 4D178**—, —, sulphate**, detection in blood plasma, by immunoabsorption - g.c. of pentafluorobenzoyloxime - m.s., 2D175**—**, detmn., by isotope dilution and fast-atom-bombardment m.s., 6A7C**—**, in blood plasma, by immunoabsorption - fast-atom-bombardment m.s., 3D186**Anethol dithiolethione**, detection, by h.p.l.c., 6C46**Angelicin**, detmn. in *Psoralea drupacea* fruits, by t.l.c. - u.v. spectroph., 1E48**Angiotensin II**, detection, by h.p.l.c. - electrochem., 6D220**Angiotensin-converting enzyme**, see *Enzymes, specific*, dipeptidyl carboxypeptidase**Angustifoline**, identn. and detmn. in lupin seeds, by g.c. and g.c. - m.s., 5G22**Anhydrotetracycline**, detmn., cyclic voltamm., with measurement at interface of two immiscible solns., 5E23**Aniline**, detection in oils, by t.l.c., 4F69, 5F76**—**, detmn., differential pulse voltamm., 2D24**—**, with modified thermal-energy analyser, 1C34**—**, in blood serum or urine, by g.c. of P-containing deriv. - m.s., 2D104**—**, in blood serum, urine or water, by isotope dilution - g.l.c. - m.s., 1H80**—**, in hardeners for epoxy-resins, by g.l.c., 4C83**—**, in presence of 4-aminophenol and NH_3 , spectroph., 1C50**—**, of diethylamine, non-aq. potentiom., 1C49**—**, of Cu in, anodic-stripping voltamm., 5B10**—, N-butyl-2,4-dinitro-**, diffuse-reflectance-spectrom. study of silica gel-immobilised, 6A22**—, 3,4-dichloro-**, detmn. in carrot extracts, by g.l.c. of heptafluorobutyl deriv., 6G25**—, 3,5-dichloro-**, detmn. in must or wine, by h.p.l.c., 3G35**—, NN-dimethyl-**, detmn. in air, with use of tubular film sampler, 4H24**—**, laser micro-probe mass analysis of asbestos-adsorbed, 4C5**—, N-ethyl-**, detmn. in presence of diethylamine, non-aq. potentiom., 1C49**—, N-methyl-**, detmn., fluorim., 4C20**—**, spectroph., 1E11**—**, in presence of diethylamine, non-aq. potentiom., 1C49**—, 4,4'-methylenebis(-)**, detmn. in blood, by g.l.c. of trifluoroacetyl deriv., 6D134**—**, of extractable, in polyurethan films, by h.p.l.c. of dibenzamide deriv., 4C81**—, 4,4'-methylenebis-(2-chloro-**, detmn. in urine, specific gravity adjustment in, 3D7**—, N-methyl-N,2,4,6-tetranitro-**, detection, by h.p.l.c. - negative-ion chemical-ionisation m.s., 1C126

Aniline, N-methyl-N,2,4,6-tetranitro —continued

- detmn. in presence of other explosives, by g.c., 2C128
 sampling of, from water, evaluation of sorbents for, 5H88
 —, **4-nitro**, detmn., spectroph., 1E11
 —, **trinitro**, detmn. of trinitroanisole in, 2C129
Aniline derivatives, detmn. of C-to-H ratios in, by g.c. of trifluoroacetyl deriv., 2C1
 h.p.l.c. study of heptafluorobutyl deriv. of, 1J54
 sepn., by t.l.c., 6J50
 —, **N-alkyl**, sepn., by h.p.l.c., 3J18
Anions, analysis, by isotachopheresis at high pH, 5J71
 concn. or sepn., through selective formation of clathrate hydrates, 6B141
 detmn. of inorg., ion chrom. - u.v. photom., 5B22
 sepn., by h.p.l.c., 6J24
 high-performance ion chrom., 5B3
 ion chrom., 1H55, 1H56
 effects of cations in non-suppressed, 6B10
 sepn. and detmn., ion-interaction chrom., 4B17
 in aq. NaOH medium, ion chrom., 5B2
 sepn. and identn., by t.l.c. of plates similar to microscope slides, 4B9
Anisaldehyde, t.l.c. study of, in presence of other aromatic aldehydes, 3C47
Anisodamine, detmn. in presence of other tropane alkaloids, by t.l.c. - densitom., 1E24
Anisodine, detmn. in presence of other tropane alkaloids, by t.l.c. - densitom., 1E24
Anisole, pentachloro, identn. in fish tissues, liquid chrom. - g.c., 2F21
 —, **trinitro**, detmn. in trinitroaniline, 2C129
Anorthosite, detmn. of noble metals in, by charged-particle activation, 3B12
Anoxomer, identn., reactions for, and detmn., fluorim. or spectroph., 5F18
Anserine, detmn. in meat, by h.p.l.c., 5F34
Anthocyanidins, sepn. from related compounds and from each other, by h.p.l.c., 4D270
Anthocyanins, sepn. from related compounds and from each other, by h.p.l.c., 4D270
 of elderberry, by h.p.l.c., 6D253
Anthracene, detmn. in anthracene cake, by g.l.c., 3C62
 sepn. from acridine and 2-aminoanthracene, by h.p.l.c., 5C43
 —, **2-amino**, sepn. from acridine and anthracene, by h.p.l.c., 5C43
 —, **9,10-diphenyl**, detection in h.p.l.c. eluates, by chemiluminescence method, 5C45
Anthracylines, sepn., by h.p.l.c., 1D58
Anthranilic acid, h.p.l.c. study of, 4D207
 —, **4-chloro-5-sulphamoyl**, detmn. in frusemide or its preparations, by h.p.l.c., 1E73
 —, **3,5-dichloro**, detmn. in reaction mixtures or prepared products, by t.l.c., 6C40
Anthranilohydroxamic acid, analysis, by h.p.l.c., 5C46
Anthraquinone, detmn. in wood pulp, by h.p.l.c., 5C77
 —, **1,3,8-trihydroxy-6-methyl**, see *Emodin*
Anthraquinone-3-carboxylic acid, 1,2,4-trihydroxy, as analytical reagent, 5A16
Anthraquinone-2,7-disulphonic acid, 2,8-diamino-4,5-dihydroxy, as redox indicator, 2A15
Anthraquinones, sepn., by h.p.l.c., 4E20
Anthraquinonesulphonic acids, sepn., liquid chrom., 6C72
Antibiotics, detmn., micro-calorim., review, 4E21
 in fermentation broth, by h.p.l.c. - m.s., 3D73
 of macrolide, by h.p.l.c. or t.l.c., 6E28
 fast-atom-bombardment m.s. studies of β -lactam, 6A7C
 identn. of classes of β -lactam, by tandem m.s., 3E21
 m.s. study of ionophor, 6A7C
 purification of [^{14}C], by h.p.l.c., 6A2C
 sepn. and detmn. of β -lactam, by h.p.l.c. - fluorim., 2E20
Antimony, concn., by ion flotation, 4B14
 detection, reaction for, 5B21
 detmn., anodic-stripping voltamm., 6B117
 by a.a.s., automated system for, 2H55
 background correction in, 5J119
 masking agents for noble metals in, 3B107
 sample-introduction system for, 5J109
 emission spectrum., reduction of interferences in, 3J84
 potentiom., with hydantoin deriv. in non-aq. media, 1A16
 spectroph., 6B116
 by multiplying reaction of iodides, 1B123
 stripping potentiom., automated, review, 4J141
 in air-borne dust, by a.a.s., 2A2C
 in biol. materials, emission spectrum., 2D33
 in bronze, by thioacetamide pptn., 2B31
 in ferrous materials, a.c. stripping voltamm., 2B148
 in hair, by photon activation, 1D19
 in lead, by n.a.a., 6B103
 emission spectrum., 2B100
 in magnesium, spectrogr., 3B44
 in minerals, ores or rocks, by a.a.s., 4C45
 with automated hydride generation, 1B122
 in nickel alloys, by a.a.s., 5B157

Antimony, determination—continued

- in org. compounds, see under *Organic elementary analysis*
 in petroleum or petroleum products, by a.a.s., 4C45
 in plants, by a.a.s., 6D17
 in presence of Bi, differential pulse anodic-stripping voltamm., 5B117
 of other elements, by n.a.a., 5B8
 in sea-water, anodic-stripping voltamm., 4H45
 by a.a.s. with pre-concn. by flotation, 3H85
 in sediments, acid-extraction - a.a.s. method unsuitable for, 4H41
 in silicon, anodic-stripping voltamm., 2B91
 in soil, by a.a.s., 4C45
 in urine, emission spectrum., 2D37
 in water, spectroph., 4H91
 of Sb^{III} and Sb^V in water, by a.a.s., with sepn. and concn. on mercapto-cotton, 3H63
 of different chemical forms of, in water, by a.a.s., with sepn. and concn. on 'thiol-cotton' fibre, 4H61
 of Au in, spectroph., 1B45
 sepn. from other elements, by t.l.c., 1B23
 solvent extraction of, with aq. systems from organometallic - halide extracts, 1B14
 with quinoline-8-carbodithioic acid, 3A14
Antimony, reagents for, crystal violet, 4H91
 2-(3,5-dibromopyridylazo)-5-dimethylaminophenol, 6B116
 Rhodamine B, 5B21
Antimony alloys, Sb - Bi, analysis, with electron micro-probe, correction for, 1J100
 —, **Sb - Pb**, detmn. of thickness and element concn. of coatings of, by XRF, 2B151
Antimony complexes, with arenetricarbonylchromium compounds, sepn., by h.p.l.c., 3C59
Antimony trichloride, detmn. of Se and Te in, 6B118
Antioxidants, detection and identn. in fats or fatty oils, by BSI t.l.c. method, 4F76
 sepn., liquid chrom., 4J30
Antiperspirants, detmn. of glycine in, by h.p.l.c., 4C70
Antipyrene, see *Phenazone*
Antithrombin III, detmn., enzymic, 4D250
 in blood plasma, review, 6D235
 with Du Pont aca analyser, 4D251
 α -Antitrypsin, detmn. in seminal plasma, immunonephelom., 4D241
Apatite, detmn. of Sr in, 1B54
 i.r. spectra of, 1D22
Apigenin, detection, by t.l.c., 3D265
 — **glycosides**, detection, by t.l.c., 3D265
Apoie, detmn. in *Petroselinum hortense* fruit, by t.l.c. - densitom., 4E35
Apoatropine, detmn. in presence of other tropane alkaloids, by t.l.c. - densitom., 1E24
Apoprotein A-I, detmn., methodology and standardisation of immunoassays for, review, 3D263
 in blood serum, immunonephelom., 2D257
 — **A-II**, detmn., by competitive enzyme immunoassay, 1D216
 — **B**, detmn., methodology and standardisation of immunoassays for, review, 3D264
 in blood plasma or low-density lipoprotein fractions, by radial immunodiffusion, 6D252
 — **E**, detmn. in blood serum, immunonephelom., 4D268
Apomorphine, detmn. in biol. tissues or blood plasma, by g.l.c. of trifluoroacetyl deriv., 6D54
 in blood plasma, by h.p.l.c., 6D53
Apple juice, analysis of volatiles in, by g.l.c., 3F37
Apples, analysis of volatiles emanating from, by head-space g.l.c., 3F37
 detmn. of 1-aminocyclopropane-1-carboxylic acid in, enzymic - spectroph., 5F52
 of ascorbic acid in, by chemiluminescence method, 1C8
 by t.l.c. - reflectance spectroph., 3F11
 of benzoate in pulp of, by h.p.l.c., 2G14
 of diphenylamine and santouin in peel of, by g.l.c., 1G31
 of dithiocarbamate fungicides in, by h.p.l.c., 3G37
 of elements in, effect of size of sub-sample in, 3G1
 of patulin in products of, by g.c. of TMS ether - m.s., 6F46
 of triforine in, by t.l.c., 3G34
Apramycin, sepn. from bekanamycin and tobramycin, by h.p.l.c. of 2,4-dinitrophenyl deriv., 4E28
Aprésoline, see *Hydralazine*
Apricots, detmn. of organochlorine and organophosphorus pesticides in, by g.l.c., 2G11
Apridine, detmn. in blood plasma, by g.l.c. - chemical-ionisation m.s., 6D108
Aqueous humour, detmn. of piracetam in, by h.p.l.c., 4D103
Arabinitol, detmn., by g.l.c. of trifluoroacetylated *O*-(—)-methyloxime deriv. - m.s., 5D90
 in soln. from xylitol production, by g.l.c. of acetate, 5C14
 in wine, liquid chrom. - triple-pulse amperom., 5F68
Arabinose, detmn., by g.c., 3D146
 in cereal-fibre hydrolysates, by h.p.l.c., 3G2
 in hydrolysates of neutral detergent fibre, by h.p.l.c., 6F4
 in plant-cell walls and mucilages, by h.p.l.c., 3D145
 in soln. from xylitol production, by g.l.c. of corresponding aldono-nitrile acetate, 5C14

Arabinose—continued

- sepn. from aldoses, by h.p.l.c. of *N*-(*p*-methoxyphenyl)glycosylamines, 2C24
 from other sugars, by h.p.l.c., 2C23
- Arachidonic acid**, analysis of metabolites of, in biol. fluids, by g.c. - chemical-ionisation m.s., 2D149
 in blood plasma or urine, by h.p.l.c., extraction method for, 5D106
 of metabolites of [^{14}C], by t.l.c., 5J77
 detection of *vic*-dihydroxyicosatrienoic acids in metabolites of, by h.p.l.c. - g.c. - m.s., 3D163
 detmn. in skin exudate, by g.c. of *t*-butyldimethylsilyl ester - m.s., 2D150
 h.p.l.c. studies of metabolites of, review, 2D148
 identn. of metabolites of, by g.c. - m.s., with direct column - ion source coupling, 4D157
 sepn. from related compounds, by t.l.c., 2D151
 of labelled and unlabelled metabolites of, by h.p.l.c., 3D164
- Arbaprostil**, detmn. in pharmaceutical preparations, by h.p.l.c., 6E32
- Archaeological materials**, analysis of weathered layers on stone artefacts, 4D205
 detmn. of elements in ceramics, by n.a.a., sample preparation for, 6J122
 of Zn in orichalcum artefacts, by n.a.a., 6B39
 PIXE study of artefacts, 5A4C
 thermoanalytical studies of, 2A4C
- Arnesulphonates**, detmn., by spectroph. titration, 2C90
- Arginine**, detmn., cause of poor recovery in, 4D219
 enzyme electrode for, 4D220
 of [guanidino- ^{15}N], in blood plasma, by g.c. of trifluoroacetyl deriv. - m.s., 5D142
- Argipressin**, detmn. in blood plasma, by r.i.a., 6D221
- Argon**, analysis, GASFET sensors for, 1J189
 detmn. in helium, and detmn. of H and N in, by time-of-flight m.s., 5J7
 of impurities in, coulom., 4B23
 of 'polyatomic' gases in, optoacoustic spectrom., 4H4
 of purity of gas mixtures with N of, in incandescent lamps, by measurement of glow-discharge decay rate, 5B113
- Aristolochic acid**, detmn. in *Aristolochia tuberosa*, polarogr., 6E65
- Arnica flower**, identn. and detmn. of flavonoids in preparations of, comparison of methods for, 3E19
- Aroclors**, see *Biphenyl derivatives, chloro-*
- Aromatase**, see under *Enzymes, specific*
- Aromatic compounds**, identn., by g.c., 3C1
- Aromatic-L-amino-acid decarboxylase**, see under *Enzymes, specific*
- Arsenate**, detmn., by g.c. of *t*-butyldimethylsilyl deriv., 3B14
 spectroph., 3B104
 in aq. samples, by g.c., as 2,3-dimercaptopropanol complex, 1H66
 in presence of other anions, by g.l.c. of *t*-butyldimethylsilyl deriv. - m.s., 2B15
 of P^{V} , spectroph., 3B103
 in sediments or water, ion-exchange chrom. - a.a.s., 3H62
- Arsenazo III**, detmn. of purity of, interference by Cl^- in spectroph. method for, 4A11
- Arsenic**, detection, reaction for, 5B21
 detmn., bromatim., indicator for, 2A15
 by a.a.s., automated system for, 2H55
 background correction in, 5J119
 comparison of methods for, 3B11
 masking agents for noble metals in, 3B107
 by h.p.l.c. - emission spectrom., 2J35
 emission spectrom., 2B18
 reduction of interferences in, 3I84
 using electrothermal carbon-cup vaporisation, 1J127
 oscillogpolarogr., 1B121
 potentiom., with hydantoin deriv. in non-aq. media, 1A16
 stripping potentiom., automated, review, 4J141
 in air-borne dust, problems arising in, 2H16
 in biol. materials, by a.a.s., comparison of sample-preparation methods for, 5B116
 emission spectrom., 2D33
 matrix effects in, 1D20
 radiom., 3D43
 spectroph., 1D46
 in biol. tissues, by n.a.a., 6D22
 in bronze, by thioacetamide pptn., 2B31
 in cocoa-containing foods, by a.a.s., 5F23
 in fats or fatty oils, by n.a.a., 4F68
 in fatty acid still-bottom residues, by a.a.s., 2C34
 in fly ash reference material, 5A18
 in gallium arsenide, by standardless electron micro-probe method, 1B206
 in glycerol, by a.a.s., 3C23
 in hair, spectroph., 4B182
 in human milk, by n.a.a., 6D21
 in lead, by n.a.a., 6B103
 emission spectrom., 2B100
 in liver tissue, by a.a.s., 3D18
 in minerals, ores or rocks, by a.a.s., with automated hydride generation, 1B122

Arsenic, determination—continued

- in org. compounds, see under *Organic elementary analysis*
 in paper additives, by a.a.s., 3C102
 in plants, by a.a.s., 6D17
 in presence of Hg, by reduction - aeration a.a.s., 4B60
 of other elements, by n.a.a., 5B8
 in sea-water, by n.a.a., with pre-concn. by colloid flotation, 4H44
 in sediments, by acid extraction - a.a.s., 4H41
 in shale oil or its products, by a.a.s., 1C86
 in silicates, by lithium borate fusion - a.a.s., 4B10
 in soil, review, 1G15
 in steel, spectroph., 4B182
 in sulphur, by XRF, 6B127
 in tungsten, by proton activation, 4B147
 in urine, emission spectrom., 2D37
 in waste water, emission spectrom., 1H88
 in water, by a.a.s., using stabilised-temp. platform furnace, 1H47
 by BSI spectroph. method, 4H58
 by PIXE, 1H46
 differential pulse cathodic-stripping voltamm., 2H63
 emission spectrom., 6H45
 spectroph., 2H62, 4H59
 in whisky, by a.a.s., 4F63
 of As^{III} and As^{V} in water, ion-exchange chrom. - a.a.s., 5H72
 of different chemical forms of, in aq. samples, by g.c. of 2,3-dimercaptopropanol complexes, 1H66
 in sediments or water, ion-exchange chrom. - a.a.s., 3H62
 in water, by a.a.s., with sepn. and concn. on 'thiol-cotton' fibre, 4H60, 4H61
 of impurities in, spectrogr., 6B115
 of inorg. and org., by g.c. - m.s., 6B114
 sepn. from other elements, by t.l.c., 1B23
 solvent extraction of, with aq. systems from organometallic - halide extracts, 1B14
- Arsenic, reagents for**, Sb - malachite green - molybdate, 4H59
 crystal violet - molybdate, 4B182
 Ag diethylothiocarbamate, 1D46, 2H62, 4H58
 thioacetamide, 5B21
- Arsenic compounds**, fate and speciation of, in aq. environment, review, 3H61
- Arsenite**, detmn., by g.c. of *t*-butyldimethylsilyl deriv., 3B14
 titrim., with bromamine N, 4A16
 in aq. samples, by g.c., as 2,3-dimercaptopropanol complex, 1H66
 in presence of other anions, by g.l.c. of *t*-butyldimethylsilyl deriv. - m.s., 2B15
 in sediments or water, ion-exchange chrom. - a.a.s., 3H62
- Arsine, hydroxydimethyl-, oxide**, detmn. in sediments or water, ion-exchange chrom. - a.a.s., 3H62
- Arson analysis**, application of dynamic head-space g.c. in, 1C6
 by mass chromatography, 1C7
 identn. of hydrocarbon fuel accelerants in, by g.l.c., with automated sampling and computer-assisted interpretation, 1C5
 method for adsorption of flammable vapours from fire debris, 1J2
- Artemether**, detmn., by t.l.c. - densitom., 6E58
- Artemisinin, methylidihydro-**, detmn., spectroph., 3E38
- Aryl hydrocarbon hydroxylase**, see *Enzymes, specific*, monooxygenase, flavoprotein-linked
- Aryl sulphotransferase**, see under *Enzymes, specific*
- Arylesterases**, see under *Enzymes, specific*
- Arylsulphatases**, see under *Enzymes, specific*
- Asbestos**, automated counting of fibres of, using Magiscan image analyser, 1J202
 characterisation of fibres of, in water, by XRF, 5H45
 detmn. in air, electron microsc., 6H19
 in bulk samples, quality-control testing for, 1B195
 in environmental materials, 4A1C
 in water, electron microsc., 2H73
 of thickness of fibres of amphibole, electron microsc., 1A1C
 isolation of amosite, from lung tissue or sputum, 5D23
 sampling of, in emissions from production processes, 2H22
 study of, by secondary-ion m.s. and laser micro-probe mass analysis, 6A7C
 with laser micro-probe mass analyser, 1A1C
 testing procedure for, 5B178
- Ascorbic acid**, detmn., by chemiluminescence method, 1C8
 by h.p.l.c., 4E2
 by kinetic - spectroph. method, 1C9
 coulom., with Cr^{VI} in non-aq. media, 1A20
 differential pulse polarogr., 6F54
 enzyme electrode for, 2J175
 potentiom., 4J135
 titrim., with bromamine N, 4A16
 voltamm., 6J163
 in algae, by h.p.l.c., 4D304
 in beer, by h.p.l.c. of bis(dinitrophenylhydrazine), 5F65
 in biol. materials, by t.l.c. - reflectance spectroph., 3F11
 in biol. materials or foods, by h.p.l.c., review, 1F8
 in biol. tissues, blood, blood serum or lemon juice, spectroph., 1D250
 in blood *in vivo* and *in vitro*, differential pulse voltamm., 2J185

Ascorbic acid, determination—continued

- in blood plasma, by h.p.l.c., 6D268
- in foods, by 2,2'-bipyridyl method, 1F9
- in fruit or vegetables, by h.p.l.c., 2F32
- in fruit juice or vegetable juice, with reagent-impregnated filter-paper, 6F47
- in liquid diets, titrim., 3E31
- in pharmaceutical preparations, amperom., 4E33
- in plant extracts, by kinetic-fluorim. (or spectroph.) method, 1D251
- in plant food products, by h.p.l.c., 5F54
- in presence of aminosalicic acid and isoniazid, iodim., 2E59
- of D- and L-, in plant juices, by t.l.c. - spectroph., 2F41
- differential pulse polarogr. study of degradation of, 5F13
- identn., i.r. spectrosc., 2E4
- in heroin powder, by use of commercial test paper, 1E22

Asparaginase, see under Enzymes, specific

- Asparagine**, detmn. in blood plasma, by automated dialysis - enzymic method, 4D218

- Asparagus**, detmn. of organochlorine and organophosphorus pesticides in, by g.l.c., 2G11

- Aspartate**, detmn. in blood plasma, effect of sampling site in, 3D209

Aspartate aminotransferase, see under Enzymes, specific

- Aspartic acid**, detmn. in brain tissue, by g.l.c. of pentafluoropropionyl deriv. of hexafluoropropyl ester - m.s., 1D175
- of D-, in foods, by g.l.c. of N-pentafluoropropionyl deriv. of isopropyl ester, 1F7

- sepn. from glutamic acid, by t.l.c., 2D212
- from tyrosine, by selective sorption, 6D213

- , **indolacetyl-**, detmn. in plants, by isotope dilution - h.p.l.c., 1D165

- , **1-naphthylacetyl-**, detmn. in grapes, liquid chrom., 3G29

Aspartyl-tRNA synthetase, see under Enzymes, specific

- Asphaltenes**, analysis, gel chrom. - n.m.r., 5C59
- characterisation of coal-derived, by n.m.r. and X-ray diffraction, 3C89

- detmn. in petroleum products, BSI gravim. method for, 2C82

- of Cl and V in, by n.a.a., 3C73

- isolation from petroleum, gel chrom., 1C72

- Aspirin**, detection of metabolites of, in urine, by t.l.c., 5D49

- detmn., phosphorim., 2E44

- use of cholinesterase inhibitor in sample tubes for, 3D298

- in biol. tissues, blood plasma or urine, by h.p.l.c., 3D84

- in blood plasma, by t.l.c. - fluorim., 4D89

- of salicylic acid in, second-deriv. u.v. spectroph., 3E45

- identn., i.r. spectrosc., 2E4

- in analgesic preparations, by t.l.c., 3E42

- sepn. from diazepam, by ion-exchange t.l.c., 5E7

- from heparin, by t.l.c., 2E32

Aspirin esterase, see under Enzymes, specific

- Astragalus miser**, purification and detmn. of miserotoxin in, spectroph., 6G19

- Atenolol**, detmn. in pharmaceutical preparations, potentiom., 6E51

- Atractyligenin**, detmn. in coffee, with its glycosides, by t.l.c. - remission spectroph., 5F59

- Atracurium besylate**, detmn. in blood plasma, by h.p.l.c., 6D114

- sepn. of isomers and decomposition products of, liquid chrom., 4E63

- Atrazine**, detmn. in water, by g.l.c., 5H92

- isolation and characterisation of metabolites in, 6A5C

- Atropine**, detmn., by g.l.c. of heptafluorobutyl deriv., 2E11

- by oscillopolarogr. titration, 6C9

- in presence of cholinesterase-reactivating oximes and their degradation products, by g.l.c., 2E12

- **sulphate**, characterisation of tetraphenylborate deriv. of, and detmn., amperom., 1E25

- detmn., by oscillopolarogr. titration, 3E3

- effect of temp. on u.v. spectrum of, 5E40

- Augite**, analysis, by secondary-ion m.s. and with laser micro-probe mass analyser, 6B93

Automated analysis, see also Continuous-flow analysis; Flow-injection analysis

- AMICA system for, 6J15, 6J16, 6J17

- automated microprocessor-controlled data-collection device for use with Technical AutoAnalyzer system, 6J19

- clinical evaluation of Ektachem 400 Analyzer, 3D17

- comparison of standardisation techniques for colorim. analysis on centrifugal analyser, 1D13

- controlled-dispersion system for, 2J11

- data handling and network analysis in clinical laboratory, 1D1

- data storage and communication for several multi-channel analysers, 6J20

- design and manufacture of instruments for clinical, 6D5

- evaluation of Hitachi 705 instrument for, 4D10, 4D11

- in tobacco industry, 1D4

- low-cost multi-channel analyser, 2A26

- methods for monitoring temp. in spectroph. instruments for, 5D2

- modification of centrifugal filtration device for use in, 4J18

- multi-channel fraction-collection system for, 3J10

- non-computerised remote data-acquisition and -display system for, 4J21

- organisation of data-handling system for, 1A21

- performance of flow-through detectors for, review, 1J14

- re-use of disposable rotors in centrifugal analysers, 6D4

- standards for computerised systems, 1A33B

Automated analysis—continued

- use of mean and range rule for Du Pont aca instrument, 3D4

- use of robotics in sample preparation for, 5J2

- Aza-arenes**, detmn. in air, by g.c. - negative-ion chemical-ionisation m.s., 2H34

- in water, by g.c. or g.c. - m.s., 3H90

- m.s. - m.s. study of, in coal-derived liquids, 1C88

- sepn., by t.l.c., 1C65

- Azamethonium bromide**, detmn., spectroph., 1E1

- Azaperone**, detection and detmn. in pork, with its metabolite, by h.p.l.c., 3F22

- Azapropazone**, detmn. in blood plasma, by h.p.l.c., 1D99

- with its metabolite, by h.p.l.c., 3D89

- Azathioprine**, detmn. of metabolite of, in erythrocytes, fluorim., 1D95

- identn. in presence of other central nervous system stimulants, liquid chrom., 4E46

- Azepine, hexahydro-**, detmn., indirect polarogr., 6C44

- Azide, diphenyl-(4-pyridyl)methyl**, h.p.l.c. study of photochem. rearrangement of, 1J49

- Azines**, acyclic, as analytical reagents, review, 1A11

- Azo-compounds**, characterisation and identn., by pattern recognition using electrochem. data, 4C34

B

- BD 40**, see *Dipyrido[4,3-b][3,4-f]indole*, 1-[3-(diethylamino)propyl-amino]-5-methyl-

- BHA**, see *Phenol, t-butyl-4-methoxy-*

- BHC**, see *HCH*

- BHT**, see *p-Cresol, 2,6-di-t-butyl-*

- 5-Br-PADAP**, see *Phenol, 2-(5-bromo-2-pyridylazo)-5-diethylamino-*

- Bacitracin**, sepn. from other proteins, by h.p.l.c., 3D234

- Bacon**, identn. of flavour compounds in fried, by g.c., g.c. - m.s. and i.r. spectrom., 3F24

Bacteria, see under Micro-organisms**Bakery products, see also Bread**

- analysis, applications of near-i.r. reflectance methods in, review, 1F18

- detmn. of sugars in, by h.p.l.c., 4F8

Balances, see under Weighing

- Balenine**, detmn. in meat, by h.p.l.c., 5F34

- Bambermycin**, detmn. in poultry tissues, by t.l.c. - microbiol., 3F25

- Bamifylline**, detmn. in blood plasma, with its metabolites, by h.p.l.c., 5D66

- Barban**, detmn. in water, by g.l.c., 5H92

- Barbitone**, detmn. in drug mixtures, by h.p.l.c. - m.s., 2C127

- Barbiturates**, detection, by colour reaction on ion-exchange resin, 1E53

- detection and detmn. in blood serum, with EMIT-st system, 1D61

- of Na salts of, spectroph., 2E42

- identn., by g.c. of underivatised compounds, 3E6

- in biol. materials, by flash alkylation - g.l.c., 1D63

- identn. and detmn. in gastric washings or urine, by g.c. - chemical-ionisation m.s., 2D64

- sepn. and identn., by t.l.c., 4E38

- in pharmaceutical preparations, by t.l.c., 1E54

- Barbituric acid, 5-ethyl-5-(1-methylpropyl)-2-thio-**, detmn. of distribution of, in 'interruption material' from abortion, by g.c., 3D79

- Barite**, detmn. in fluorspar flotation pulp, by on-line XRF, 6B183

- of elements in, by PIXE, 2B3

- Barium**, concn., on polyether-based polyurethane foam, 2B11

- detection, by synchrotron-radiation XRF, 2J87

- reaction for, 5B21

- detmn., by a.a.s., comparison of methods for, 3B11

- effect of Cr in, 3B43

- by XRF, 6B18

- emission spectrom., effect of ethanol in, 6B13

- potentiom., 1B52

- in biol. materials, emission spectrom., standards for use in, 2D34

- in boiler-feed water, ion-exchange chrom. - a.e.s., 5H60

- in iron alloys, by XRF, 4B187

- in minerals, ores or rocks, by a.e.s., 1B191

- in silicates, spectrogr., 1B107

- sepn. from alkali and other alkaline-earth metals, by h.p.l.c., 4B29

- from Mg, by ion exchange, 3J42

- from other elements, ion chrom., 1B16

- from Sr, ion-exchange chrom., 2B37

- solvent extraction of, with dibenzo-18-crown-6 and sulphonphthalein dyes, 3B25

- with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - trioctyl-phosphine oxide, 1H45

- Barium, reagent for, K₂CrO₄**, 5B21

- Barium nitrate**, detmn., by potentiom. pptn. titration, 4A19

- Barley**, analysis of sugars in hydrolysates of fibres of, by h.p.l.c., 3G2

- detmn. of Cd and Zn in, by a.a.s., sample preparation for, 6G2

- of carbohydrates, ethanol and glycerol in, by h.p.l.c., 5F61

- of citrinin in, by h.p.l.c., 4G5

- of metals in developing seeds of, by a.a.s., 1G3

- of Ti in, differential pulse polarogr., 6G3

- Bases**, detmn., titrim., nomogram for assessing possibility of, 5A21
of hydrobromides and hydrochlorides of org., non-aq. titrim., 5E2
of hydrochlorides of org., non-aq. titrim., 5E3
solvent extraction of org., with toluene, as ion-association complexes with picric acid, 3C36
- Bastnaesite**, detmn. of Eu in, automated spectroph., 3B69
- Bauxite**, detmn. of Ca in, by XRF, 3B59
of elements in, emission spectrom., 2B54
of lanthanoids in, by n.a.a., 6B63
of Ti in, spectroph., 3B97
- Baytex**, see *Fenthion*
- Beans**, see also *Soya beans*
detmn. of aflatoxin B₁ in green, by t.l.c. - densitom., 6F11
of I in mung, losses during ashing in, 6F26
of phytic acid in, by h.p.l.c., 1F16
identn. and detmn. of cAMP in plants of, by h.p.l.c., 1D234
- Beef**, analysis of ATP metabolites in, by h.p.l.c., 1F21
detmn. of amines in ground, with amino-acid auto-analyser, 2F4
of α -amino-acids in, by g.l.c. of *N*-pentafluoropropionyl deriv. of isopropyl esters, 1F7
of neutral and polar lipids in, comparison of solvent-extraction methods for, 4F32
- Beer**, analysis, applications of g.c. in, review, 6F58
review, 1F43
of bitter substances in, by h.p.l.c., review, 1F44
of carbonyl compounds in, by h.p.l.c. of 2,4-dinitrophenylhydrazones, 3F47
of flavonoids in, by h.p.l.c., review, 3F7
of flavour compounds in, by dynamic head-space entrainment technique, 6F63
assay of β -glucanase in, collaborative study of viscom. method for, 2F54
of papain in, radiom., 6F66
detmn. of alginate in, electroph., 6F67
of aliphatic amines in, by h.p.l.c. of deriv. formed with 7-chloro-4-nitrobenzofurazan - laser fluorim., 5F64
of Al, Cd, Pb and Sn in, by a.a.s., 6F62
of ascorbic acid in, by h.p.l.c. of bis(dinitrophenylhydrazones), 5F65
of Ca and Mg in, collaborative study of titrim. method for, 2F52
of carbohydrate in, collaborative study of colorim. method for, 2F53
of CO₂ in, by ethanolamine fixation - manom., 5F63
of dimethyl sulphide in, by g.l.c., 2F55, 2F56
of flavour components in, by head-space g.c., 2F51
of Fe in, spectroph., 2B142
of Mn in, by kinetic - fluorim. method, 1F5
of nitrosamines in, by g.c. or h.p.l.c., with thermal-energy analyser, 6F65
by g.c. - thermal-energy analysis, 2F49
by g.l.c., 1F49
collaborative study of g.l.c. methods for, 2F50
review, 5F62
of oxalate in, ion-exchange chrom. - spectroph., 6F64
of sugars in, by h.p.l.c., 4F57
of 1,2,3,4-tetrahydro-6-hydroxy-1-methyl- β -carboline in, by g.c. of pentafluoropropionyl deriv. - m.s., 3F49
sepn. of α -, β - and iso- α -acids in, by h.p.l.c., 6F61
sepn., identn. and detmn. of non-volatile compounds in, by h.p.l.c., review, 6F57
- Beeswax**, detmn. of 2-chloroethanol in, by g.l.c., 5F22
- Befunolol**, detmn. of metabolite of, in urine, by g.l.c. of TMS deriv., 3D103
- Bekanamycin**, sepn. from apramycin and tobramycin, by h.p.l.c. of 2,4-dinitrophenyl deriv., 4E28
- Bendazol**, detmn. in pharmaceutical preparations, iodim., 5E13
in presence of papaverine, phenobarbitone and theobromine, by h.p.l.c., 1E8
- Bendiocarb**, detmn. in fruit or vegetables, by g.c., 6G31
sepn. from other carbamates, by t.l.c., 1G36
- Bendrofluazide**, detmn., by h.p.l.c., 3E71
- Benflurafin**, sepn. from related herbicides, by g.c., 1G29
- Benoxapofen glucuronide**, detmn. in blood plasma or urine, by g.l.c., 3D90
- Benperidol**, detmn. in blood plasma, by g.l.c., 5D54
- Benz[e]acephenanthrylene**, detmn. in presence of other PAH, by t.l.c. - h.p.l.c., 3H77
- Benzaldehyde**, detmn. in presence of other aldehydes, by h.p.l.c. of azines - fluorim., 3H30
—, 4-dimethylamino-, t.l.c. study of, in presence of other aromatic aldehydes, 3C47
—, 2-nitro-, t.l.c. study of, in presence of other aromatic aldehydes, 3C47
—, 3-nitro-, t.l.c. study of, in presence of other aromatic aldehydes, 3C47
- Benzalkonium chlorides**, analysis of mixtures of, by chemical-ionisation m.s., 3E65
of mixtures of, by h.p.l.c. - m.s., 3E64
detmn. in presence of interfering alkaloids and polymeric substrates, by h.p.l.c., 6E64
— salts, detmn., spectroph., 4E67
- Benazamide**, *N*-butyl-4-nitro-, diffuse-reflectance-spectrom. study of silica gel-immobilised, 6A22
- Benz[a]anthracene**, sepn. from other PAH, by g.c., 1C58
- Benanthracene, dimethyl-**, detmn. in presence of benzo[a]pyrene and pyrene, by t.l.c. - i.r. spectroph., 6J53
- Benanthracene derivatives**, sepn. and detmn. in car-exhaust gases, by g.l.c., 5C54
- 3-Benzazepine-7,8-diol, 6-chloro-2,3,4,5-tetrahydro-1-(4-hydroxyphenyl)-1H-**, detmn. in blood plasma, by h.p.l.c., 1D84
- Benzene**, biol. monitoring of, 2A1C
detmn. in air, by g.l.c., 5H26
with Organic Vapour Monitor, 1C4
with stain-length passive dosimeter, 3H18
in air or aq. soln., by secondary-ion m.s., 1H36
in gas mixtures, preparation of gas mixtures for calibration in, 4J13
preparation of gas-cylinder standards for use in, 4J14
in gas mixtures from xylene manufacture, by g.c., 2C47
in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113
in tetraethyl-lead, by g.l.c., 2C72
in waste water, by g.l.c., 1H89
of metabolite of, in urine, by h.p.l.c., 3D135
identn. in solvent mixtures, by g.c. - u.v. spectroph., 2C2
recovery from pre-analysis extraction column, 1G25
sepn. from chlorobenzenes and chlorophenols, by g.c., 2C48
from other aromatic hydrocarbons, by h.p.l.c., use of multiple linear-regression analysis for calculation of conditions for, 5C30
—, ethyl-, detmn. in gas mixtures from xylene manufacture, by g.c., 2C47
in waste water, by g.l.c., 1H89
sepn. from xylenes, by g.l.c., 5C31
—, hexachloro-, detmn. in air or skin washings, by g.c., 5H33
in biol. materials, by g.c., 1D103
identn. in fish tissues, liquid chrom. - g.c., 2F21
—, 4,4'-methylenebis(isocyanato)-, detmn. in chipboard, u.v. spectroph., 1C99
—, nitro-, detection, by h.p.l.c., 3J23
detmn. in waste water, by g.l.c., 2H100
in water, by h.p.l.c., with pre-concn. on pyrocarbon-modified silica, 1H77
—, pentachloro-, identn. in fish tissues, liquid chrom. - g.c., 2F21
- Benzene derivatives**, biol. monitoring of, 2A1C
—, alkyl, h.p.l.c. study of, 1C39
h.p.l.c. and liquid - liquid extraction studies of, 4J35
sepn., collaborative study of g.c. method for, 5C32
—, chloro-, detmn. in fish, sediments or water, by g.l.c., 1H75
in water, by g.l.c., 5H92
of purity of, differential scanning calorim., 1C38
sepn., by g.c., 6C31
from benzene, phenol and chlorophenols, by g.c., 2C48
—, chloronitro-, sepn. and detmn. in TATB, by g.l.c., 4C88
- Benzenboronic acid derivatives**, g.c. - m.s. and m.s. studies of deriv. formed with ethane-1,2-diol, propane-1,3-diol or catechol by, 1C54
- Benzenediazonium chloride derivatives**, detmn., differential pulse polarogr., 3C57
- Benzene-1,3-disulphonamide, 4-amino-6-chloro-**, detmn. in presence of related compounds, by t.l.c. - spectroph., 2E63
- Benzene-3,5-disulphonic acid, 1,2-dihydroxy-, disodium salt**, extraction from aq. soln. of, with liquid anion exchangers, 6A19
- Benzenesulphonamide, N-bromo-4-nitro-, sodium salt**, see *Bromamine N*
- , 2-chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]-carbonyl-**, see *Chlorsulphuron*
- Benzenesulphonate, dodecyl-**, detmn. in water, by indirect a.a.s., 6H56
—, trinitro-, detmn., potentiom., ion-selective electrode for, 6J148
- Benzenesulphonic acid, 4-[3-allyl(thioureido)]-**, as analytical reagent, 3A13
—, dodecyl-, sodium salt, detmn. in presence of zephiramine, by two-phase titration, 6C68
- Benzenesulphonic acid derivatives, alkyl**, detmn. in water, spectroph., 2H86, 2H87
of linear, in water, by g.l.c. of sulphonyl chloride deriv., 1H82
- Benzene-1,3,5-triamine, 2,4,6-trinitro-**, sepn. and detmn. of chloronitrobenzene deriv. in, by g.l.c., 4C88
- Benzethonium salts**, detmn., spectroph., 4E67
in pharmaceutical preparations, spectroph., 6E10
- Benzhexol**, detmn. in pharmaceutical preparations, partition chrom. - spectroph., 4E59
- Benzidine**, detmn. in direct dyes, use of radio-tracers in evaluation of techniques for, 6A2C
in waste water, by h.p.l.c., 2H101
laser micro-probe mass analysis of asbestos-adsorbed, 4C5
—, 3,3'-dichloro-, detmn. in waste water, by h.p.l.c., 2H101
- Benzimidazol-2-amine, anti-6-(α -hydroxyiminobenzyl)-1-isopropylsulphonyl-1H-**, see *Enviroxime*
- Benzimidazolin-2-one, 1-(3-[2-hydroxy-3-(1-naphthylxy)propylamino]-3,3-dimethylpropyl)-, hydrochloride**, detmn. in blood plasma, by h.p.l.c., 5D68
- Benzoate**, sepn. from other org. anions, high-performance ion chrom., 5B3
- 5H-Benzo[b]carbazole**, detmn. in presence of related compounds, fluorim., 4C43
- Benzocyclidine**, detmn., colour reactions for, 4E54
identn., by t.l.c., 4E55

- Benzodiazepine derivatives**, detection, colour reactions for, 3E47
in blood, by formation of primary aromatic amines, 2D79
detection and detmn. in blood, by h.p.l.c., 3D94
in blood serum, with EMIT-st system, 1D61
- Benzodiazepine derivatives**, detmn., polarogr., review, 5E30
in biol. fluids, electrochem., review, 5D56
in urine, by g.l.c. of corresponding benzophenones, 1D72
identn. in urine, by t.l.c., 5D55
- 1,4-Benzodiazepin-2-one, 7-bromo-5-(2-chlorophenyl)-1,3-dihydro-**, see *Phenazepam*
- Benzo[k]fluoranthene**, detmn. in presence of other PAH, by t.l.c. - h.p.l.c., 3H77
- Benzofuran, 2-butyl-3-(4-hydroxybenzoyl)-**, sepn. from amidarone hydrochloride and other intermediates, by t.l.c., 3E56
—, **2-butyl-3-(4-hydroxy-3,5-di-iodobenzoyl)-**, sepn. from amidarone hydrochloride and other intermediates, by t.l.c., 3E56
—, **2-butyl-3-(4-methoxybenzoyl)-**, sepn. from amidarone hydrochloride and other intermediates, by t.l.c., 3E56
—, **2,3-dihydro-7-hydroxy-2,2-dimethyl-**, sepn. from other urinary pesticide metabolites, by h.p.l.c., 5D85
—, **2-(1-hydroxyethyl)-7-(2-hydroxy-3-isopropylaminopropoxy)-**, glucuronide, detmn. in urine, by g.l.c. of TMS deriv., 3D103
- Benzofuran-3-one, 2,3-dihydro-7-hydroxy-2,2-dimethyl-**, sepn. from other urinary pesticide metabolites, by h.p.l.c., 5D85
- Benzofurazan-4-sulphonic acid, 7-fluoro-**, ammonium salt, as fluorogenic reagent, 2C10
- Benzohydrazide derivatives**, detmn., spectroph., 3C39
- Benzoic acid**, chrom. methods for analysis of creams containing, 1E2
detmn., catalytic thermom. titrim., thermom. indicators for, 3A19
potentiom., use of sulphur nitride electrode for, 2J166
second-deriv. u.v. spectrosc., 5F17
in benzoylecgonine or cocaine soln., by h.p.l.c., 3E14
in cheese or sour milk preparations, by h.p.l.c., 3F35
in creams, by h.p.l.c., 2E1
in foods, by g.l.c., 5F15
by g.l.c. of TMS ester, collaborative study of, 5F14
second-deriv. u.v. spectrosc., 5F16
in pharmaceutical preparations, by h.p.l.c., 3E77
in presence of other org. acids, ion chrom., 4E37
in raw materials for poly(ethylene terephthalate) production, by g.l.c. of methyl ester, 5C83
identn., i.r. spectrosc., 2E4
— **esters, benzyl derivatives**, identn. in residue from dimethyl terephthalate distillation, by g.c. - m.s., 3C52
—, **methyl**, detmn. in aq. soln., by g.c., 1C47
—, **sodium salt**, detmn. in ethanediol, potentiom., 2C21
in orange juice, by h.p.l.c., as indication of adulteration, 1F42
in pharmaceutical preparations, u.v. spectrosc., 4E39
in presence of chlorpheniramine maleate and phenylephrine hydrochloride, by h.p.l.c., 6E12
in soy sauce, by g.c., 4F55
- Benzoic acid, 3-amino-**, h.p.l.c. study of, 4D207
—, **4-amino-**, h.p.l.c. study of, 4D207
—, **2-amino-5-chloro-**, detmn. of heavy metals in, voltamm., 3E1
—, **4-dimethylamino-2-formyl-**, detmn. in products of 4-dimethylaminophthalohydrazide oxidation, by t.l.c. - spectroph., 3C55
—, **5-dimethylamino-2-formyl-**, detmn. in products of 4-dimethylaminophthalohydrazide oxidation, by t.l.c. - spectroph., 3C55
—, **4-formyl-**, detmn. in raw materials for poly(ethylene terephthalate) production, by g.l.c. of methyl ester, 5C83
—, **3-hydroxy-**, identn. in urine, by g.l.c. of trifluoroacetyl deriv. of butyl ester - m.s., 1D123
—, **4-hydroxy-**, identn. in plants, by h.p.l.c., 5G4
in urine, by g.l.c. of trifluoroacetyl deriv. of butyl ester - m.s., 1D123
—, **esters**, detmn. in cheese or sour milk preparations, by h.p.l.c., 3F35
in hexylcaine hydrochloride soln., by h.p.l.c., 3E50
sepn. and detmn. in cough mixture, by h.p.l.c., 3E74
in pharmaceutical preparations, by h.p.l.c., 3E77
in presence of BHA, by g.c. of heptafluorobutyrate or trifluoroacetate deriv. - m.s., 2E70
—, **3-hydroxy-4-methoxy-**, identn. in urine, by g.l.c. of trifluoroacetyl deriv. of butyl ester - m.s., 1D123
—, **4-hydroxy-3-methoxy-**, identn. in urine, by g.l.c. of trifluoroacetyl deriv. of butyl ester - m.s., 1D123
—, **2-mercapto-**, detmn., by kinetic - spectroph. method, 1C9
spectroph., 5C7
—, **2-nitro-**, sepn. from its isomers, by h.p.l.c., 2C51
—, **3-nitro-**, sepn. from its isomers, by h.p.l.c., 2C51
—, **4-nitro-**, sepn. from its isomers, by h.p.l.c., 2C51
—, **3-[2-(5-nitrofur-2-yl)ethenyl]-, sodium salt**, detmn. in fish tissues, by h.p.l.c., 2F24
—, **2-sulphamoyl-**, detmn. in saccharin or saccharin sodium, by h.p.l.c., 6F19
—, **4-sulphamoyl-**, detmn. in saccharin or saccharin sodium, by h.p.l.c., 6F19
—, **2-sulpho-**, detmn. in saccharin or saccharin sodium, by h.p.l.c., 6F19
—, **4-sulpho-**, detmn. in saccharin or saccharin sodium, by h.p.l.c., 6F19
- Benzoic acid derivatives**, sepn. and detmn., ion chrom., without suppression, 6B19
sepn. and identn. in wine, by h.p.l.c., 5F69
- Benzomate**, see *Benzoximate*
- Benzo[rs]pentathene**, detmn. in foods, liquid chrom. - fluorim., 4F16
- Benzo[ghi]perylene**, detmn. in presence of other PAH, by t.l.c. - h.p.l.c., 3H77
- Benzophenols**, detmn. in sediments or water, by g.c., 1H79
- Benzophenone derivatives**, detection and detmn. in plastics, by h.p.l.c., 5C86
- Benzo[a]pyrene**, detmn., enzymic - fluorim., 2C55
in aerosols or dusts, by g.l.c., 2H35
in air-borne dust, by h.p.l.c., 4H25, 5H36
in coffee or in by-products of its roasting, by h.p.l.c., 1F39
in pitch, by t.l.c. - fluorim., 3C90
in plants or soil, fluorim., effect of traffic on results in, 3G16
in presence of dimethylbenzanthracene and pyrene, by t.l.c. - i.r. spectroph., 6J53
of other PAH, by t.l.c. - h.p.l.c., 3H77
laser micro-probe mass analysis of asbestos-adsorbed, 4C5
—, **10-aza-**, sepn. from other aza-arenes, by t.l.c., 1C65
- Benzo[a]pyrene derivatives**, detmn. of methyl and methoxy-, laser-induced matrix-isolation fluorim., 1C59
- Benzopyrene derivatives**, sepn. and detmn. in car-exhaust gases, by g.l.c., 5C54
- Benzo[a]pyrene-7,8-diol, 7,8-dihydro-**, detmn., by chemiluminescence method, 5D86
- Benzo[h]quinoline**, enhancement of phosphorescence of, 2C57
- Benzo[h]quinoline derivatives**, alkyl, sepn. and identn. in crude oils, by g.c. - Shpol'skii fluorim., 3C71
- Benzoquinoline derivatives**, sepn. from other aza-arenes and from each other, by t.l.c., 1C65
- p-Benzquinone**, detmn., iodim., by amplification reaction, 3C48
— **mono-(2,4-dinitrophenylhydrazine)**, as acid - base indicator, 1A15
- p-Benzquinonimine, N-acetyl-**, detmn., by g.l.c., 6D82
- Benzothiazole, 2-mercapto-**, detmn., stripping voltamm., 3C16
in engine coolants, by h.p.l.c., 5C91
in rubber teats for babies' bottles, by h.p.l.c., 2C125
- Benztiazole derivatives**, detection and detmn. in plastics, by h.p.l.c., 5C86
detmn. in lubricating oils, by h.p.l.c., 4C52
- Benzoximate**, detmn. in apple pulp or in orange peel or pulp, by h.p.l.c., 2G14
- Benzoylprop-ethyl**, detmn. in water, by g.l.c., 5H92
- Benzyl alcohol, α-(t-butylaminomethyl)-3,4-dihydroxy-**, see *Colterol*
- Benzylamine, α-methyl-**, sepn. of enantiomers of, by h.p.l.c., 1C1
—, **N-[3-(2-methylpropoxy)-2-(1-pyrrolidinyl)propyl]-N-phenyl-**, see *Bepiridil*
—, **N-phenyl-**, detmn., fluorim., 4C20
- Bephenium hydroxynaphthoate**, detmn., spectroph., 1E1
- Bepiridil**, detmn. in blood plasma, by g.l.c., 3D109
- Berberine**, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
- Berberine**, detmn., spectroph., 1E26, 4E14
in pharmaceutical preparations, spectroph., 6E10
— **chloride**, detmn., titrim., 3E15
- Bergaptol**, identn. and detmn. in citrus fruit, by h.p.l.c., 3F38
- Berkellum**, sepn. from complex mixtures, by solvent extraction - ion-exchange chrom., 3B85
solvent extraction of, with tributyl phosphate from HNO₃ soln., 3B84
solvent extraction and redox equilibria of, 3B86
- Beryllium**, concn. from water, on cellulose, 5H51
detection, laser-induced-breakdown spectrom., 2B36
detmn., by a.a.s., 6B47
emission spectrom., effect of ethanol in, 6B13
reduction of interferences in, 3J84
fluorim., 1B47
spectroph., 1B13
in biol. materials, emission spectrom., 2D33
in magnesium, spectrogr., 3B44
in minerals, ores or rocks, by a.a.s., 1B48
spectroph., 4B50, 4B51
in silicates, spectrogr., 1B107
in uranium, emission spectrom., 1B95
in urine, emission spectrom., 2D36
in waste water, emission spectrom., 1H88
in water, by a.a.s., 2H50
using stabilised-temp. platform furnace, 1H47
emission spectrom., using computer-controlled monochromator, 2H47
of ⁹Be-to-¹⁰Be ratio, with tandem accelerator, 2H51
of ¹⁰Be, by high-energy m.s., 1B49
in air-borne dust, by m.s., 1H16
sepn. from Mg, by t.l.c., 6B3
from other elements, ion-exchange chrom., 5B48
- Beryllium, reagents for**, Chrome Azurol S, 1B13
Chrome Azurol S - dodecylmethylammonium acetate, 4B50
Chrome Azurol S - polyoxyethylene glycol octylphenyl ether, 4B51
2-(salicylideneamino)benzoic acid, 1B47
- Beryllium complexes**, d.t.a. - m.s. system for studies of thermal decomposition of, 3J153
- Beta-HCH**, detmn. in human milk, by g.l.c., 5D84
in water, by g.c. - m.s., 6H62
identn. in fish tissues, liquid chrom. - g.c., 2F21

- Betahistine hydrochloride**, t.l.c. - u.v.-spectroph. study of stability of, 6E52
- Betamethasone**, analysis of metabolites of, in urine, by h.p.l.c. - m.s., 3D73
- detection in urine, by t.l.c. - tandem m.s., 4D51
- detmn. in presence of dexamethasone, liquid chrom. - m.s., 2E30
- Bethanidine sulphate**, effect of temp. on u.v. spectrum of, 5E40
- Beverages**, analysis of reducing sugars in, liquid chrom. of dansyl deriv., 3D144
- applications of h.p.l.c. in quality control of, review, 5F6
- detmn. of benzoic acid and sorbic acid in, by g.l.c., 5F15
- of caffeine in, by h.p.l.c., 5F60
- of element speciation in, review of sepn. procedures used for, 6F2
- of saffrole in, by h.p.l.c., 1C94
- , **alcoholic**, see also *Beer; Brandy; Whisky; Wine*
- detmn. of PAH in, by t.l.c. - fluorim., 6F55
- , **non-alcoholic**, detmn. of Cd, Cu and Pb in, by a.a.s., 4F56
- of purine alkaloids and trigonelline in, by h.p.l.c., 3F43
- of SO₂ in, by steam-distillation - iodim., 2F13
- Biacyl**, detmn. in beer, by head-space g.c., 2F51
- Bibenzyl, 4,4'-diamino-**, detmn. in presence of 4,4'-diaminostilbene, u.v. spectroph., 6C38
- Bicyclo[3.2.0]heptane, 2-methylidene-**, sepn. of enantiomers of, by h.p.l.c., 1C18
- Bicyclo[2.2.2]octane, 1,4-diaza-**, detmn. in air, by g.l.c., 5H38
- spectroph., 6H26
- , **1,1'-(hexane-1,6-diyl)bis-(3-benzyl-1-azonia-, dichloride)**, see *Qualidil*
- Bile**, analysis of bile acid conjugates in, by h.p.l.c. - g.c. of methyl esters (or trifluoroacetyl deriv.) - m.s., 2D186
- detmn. of amidarone in, by h.p.l.c., 6D109
- of bile acids in, by r.i.a., 3D194
- of bile acids in free and conjugated forms in, by h.p.l.c., 3D190
- of cefoxitin in, by h.p.l.c., 5D36
- of drugs and their metabolites in, by automated h.p.l.c., 4D48
- of enviroxime in, by h.p.l.c., 1D91
- of furosemide and its metabolite in, by h.p.l.c., 3D127
- of iodothyronine deriv. in, by r.i.a., 3D217
- of oxmetidine and its metabolites in, comparison of h.p.l.c. methods for, 5D69
- interpretation of pyrolysis mass spectra of, 1D7
- sepn. of higher bile acids in amphibian or reptile, by h.p.l.c. of *p*-bromophenacyl esters, 3D192
- Bile acids**, analysis, by g.c., review, 1J67
- of conjugated, by h.p.l.c. - g.c. of methyl esters (or trifluoroacetyl deriv.) - m.s., 2D186
- detmn., by automated bioluminescence method, 4D14
- by g.l.c., double derivatisation reaction for, 3D193
- in bile, biol. tissues or urine, by r.i.a., 3D194
- in biol. fluids, with their conjugates, review, 5D116
- in blood serum, by enzymic cycling method, 1D147
- by enzymic dehydrogenation - bioluminescence method, 2D188
- by enzymic oxidation - h.p.l.c. of dansyl deriv., 3D191
- enzymic - fluorim., 2D189
- interference by fusidic acid in enzymic method for, 1D149
- of free and conjugated, in bile or blood serum, by h.p.l.c., 3D190
- in blood serum, enzymic - fluorim., 6D194
- of sulphated 7 α -hydroxy, in urine, enzymic - spectroph., 4D184
- extraction from blood serum, with their conjugates, using Bond-Elut cartridges, 1D146
- preparation of 3-glucuronides of 7- and 12-oxo-deriv. of, 3D195
- sepn., by h.p.l.c., optimisation of conditions for, 4D182
- of higher, by h.p.l.c. of *p*-bromophenacyl esters, 3D192
- of mono-, di- and tri-hydroxy stereoisomers of, by g.l.c. of methyl ester - TMS ether deriv. - m.s., 2D187
- of salts of oxo-, by h.p.l.c. of dansyl- or 2,4-dinitrophenyl-hydra-zones, 4D183
- **glucuronides**, detmn. in blood serum, by g.c. of hexafluoroisopropyl trifluoroacetyl deriv. - m.s., 3D196
- Bile acids, 3 α -hydroxy-**, detmn. in faeces, enzymic, 1D148
- Bile salt hydroxysteroid dehydrogenases**, see under *Enzymes, specific*
- Bilimin**, detmn., by t.l.c. or u.v. spectroph., 5E46
- Bilirubin**, detmn., acceptable limits for precision and accuracy in, 3D3
- evaluation of Ames Seralyzer for, 6D255
- evaluation of Hitachi 705 analyser for, 4D10
- with Cobas-Bio centrifugal analyser, 2D20
- in blood serum, inter-laboratory study of spectroph. method for, 2D259
- secondary calibration standards for, 4D274
- using diazo-based dry film, 2D260
- in skin, spectroph., 1D222
- of conjugated and total, with centrifugal analyser, 4D273
- of different chemical forms of, in blood serum, by h.p.l.c., 6D254
- of total and direct, assessment of accuracy of Jendrassik - Grof method for, 2D258
- by automated enzymic - spectroph. method, 1D221
- Bilirubin-UDP-glucuronyl transferase**, see *Enzymes, specific*, UDPglucuronosyltransferase
- Binazone**, see *Todrazoline*
- Biochemical analysis**, 3D319B; see also *Clinical analysis*
- applications of deriv. spectroscopy in, review, 3D6
- Biochemical analysis, applications—continued**
- of electroanalytical chemistry in, review, 6J126
- of ion-pair extraction and h.p.l.c. in, review, 6E1
- ion-selective electrodes in, review, 6D6
- new journal, 4E90B
- Biochemical oxygen demand**, detmn. of BOD₅ value of natural or waste water, 2H75
- Biological cells**, analysis of enzymes in single, laser flow cytom., 1A1C
- assay of glutaryl-CoA dehydrogenase in cultured, 5D202
- detmn. of ¹⁴C in exudates from, by u.v. photo-oxidation - liquid scintillation counting, 2D51
- of elements in single, by PIXE, 3D19
- of ³H in lysate of, by charged-particle activation, 5B26
- fluorim. study of living, 1A1C
- Biological fluids**, analysis, design and manufacture of instruments for automated, 6D5
- extraction-chrom. clean-up system for, 2D61
- of reducing sugars in, liquid chrom. of dansyl deriv., 3D144
- of sugars in, liquid chrom., with post-column reaction with hexa-amminecopper(II), 2D108
- detection of low-mol.-wt. polypeptides in, gel electroph., 3D221
- detmn. of 4-aminohex-5-enoic acid enantiomers in, by g.l.c. of *N*-tri-fluoroacetyl deriv. of methyl esters - m.s., 6D77
- of 1,4-benzodiazepine deriv. in, electrochem., review, 5D56
- of bile acids and their conjugates in, review, 5D116
- of Cu, Fe and Zn in, gel chrom. - emission spectrom., 2D41
- of cortisone, 17 α ,21-dihydroxypregn-4-ene-3,20-dione and hydrocortisone in, by h.p.l.c., 6D190
- of cortisone and hydrocortisone in, by h.p.l.c. - fluorim., 6D191
- of dexamethasone in, by stable-isotope dilution - m.s., 6A2C
- of 3,4-dihydroxyphenylethanol in free and conjugated forms in, enzymic - radiom., 3D157
- of drugs in, by t.l.c., 5A2C
- of drugs and metabolites in, 4D47
- of elements in small vol. of, review, 5D11
- of enterodiol and enterolactone in, by g.c. of TMS ether deriv. - m.s., 2D128
- of F⁻ in, potentiom., with ion-selective electrode, 6D43
- of F-containing substances in, limitations of Na-fusion method for, 2D65
- of gentamicin in, by enzyme immunoassay with Abbott ABA-100 Analyzer, 2D69
- of glucose in, miniature sensors for use in, 4D141
- of lactoferrin in, by enzyme immunoassay, 6D238
- of leukotriene B₄ in, by r.i.a., 6D172
- of leukotrienes in, by h.p.l.c., 6D171
- of levodopa in, by h.p.l.c., 2D72
- of prostaglandins E₂ and F_{2 α} in, by g.l.c. - m.s. or r.i.a., 4D159
- of sulphamethoxazole, its metabolite and trimethoprim in, by h.p.l.c., 6D115
- of SCN⁻ in, suitable resins for collection in, 2D53
- of vinpocetine in, by g.c., 6A5C
- purification of proteins from, by chromatofocusing and isoelectric focusing, 6D224
- sepn. of anions in, by h.p.l.c., 6J24
- sepn. and detmn. of 'middle molecule' b₄-2 in, liquid chrom., 4D227
- of nucleotides in, by h.p.l.c., 1D231
- Biological materials**, analysis, apparatus for wet-ashing for, 5C3
- applications of g.l.c. - selected-ion monitoring in, 3D9
- by fast-atom-bombardment m.s., 6A7C
- of amino-acids in, by g.l.c. of *N*(OS)-acyl alkyl esters, derivatisation procedure for, 2D213
- of phenols in, by g.l.c. and h.p.l.c., review, 6C33
- assay of cystine aminopeptidase in, phosphorim., 6D285
- of esterases in, chromogenic substrates for, 4D322
- characterisation, by sedimentation field-flow fractionation at high force fields, 1J200
- detection of fenthion in, by t.l.c., 4D137
- of PCB and tetrachlorodibenzofuran in, by g.c. - m.s., g.c. - m.s. - m.s. or m.s. - m.s., 4D135
- detection and detmn. of zineb and ziram in, by colour reaction and by t.l.c. - photom., 6D139
- detmn. of actinoids in, extraction chrom., 6A5C
- of alcohols and carboxylic acids in, by g.l.c., 2D132
- of aliphatic aldehydes in, by h.p.l.c., 6A5C
- of Am in by co-pptn. with oxalate - ion-exchange chrom. - α -spectrom., 1H61
- of ²⁴¹Am and Pu in, by ion exchange - electro-deposition - α -spectrom., 3G12
- of ammonium-N in, automated colorim., 3G13
- of amoxapine in, by g.l.c., 1D75
- of Sb or As in, by alkali fusion - iodim., 6C6
- of aromatic hydrocarbons in marine, by high-performance chrom. methods, 2A2C
- of As in, by a.a.s., comparison of sample-preparation methods for, 5B116
- radiom., 3D43
- of As in different chemical forms in, by g.c. - m.s., 6B114
- of ascorbic acid in, by h.p.l.c., review, 1F8
- by t.l.c. - reflectance spectroph., 3F11

Biological materials, determination—continued

- of biogenic amines in, review, 4D187
 - of Cd, Cu, Pb and Se in, differential pulse stripping voltamm., 4D23
 - of Ca in, spectroph., 3D32
 - of C and N in org. form in, and of stable-isotope ratios in, by m.s., 2D50
 - of catecholamine deriv. in, by alumina extraction - enzymic - radiom., 4D195
 - of chlorinated hydrocarbons and PCB in, by g.c., 1D103
 - of chlorophenols in, liquid chrom., with pre-concn. on copolymeric sorbent, 1H78
 - of Co in mineralised, differential pulse polarogr., 4D44
 - of codeine and ethylmorphine in, by g.c., 6D55
 - of Cu in, spectroph., 3B9
 - of cCMP in, by enzyme immunoassay, 1D239
 - of *cis*-dichloro-*trans*-dihydroxybis(isopropylamine)platinum(IV) in, by g.c., 2D97
 - of elements in, by cycling n.a.a., 4D17
 - by energy-dispersive X-ray analysis, review, 1D18
 - by h.p.l.c. of chelate complexes, 2H43
 - by n.a.a., 1B9, 5B8
 - after liquid-chrom. removal of Na, 1D25
 - by n.a.a. *in vivo*, interferences in, 5D13
 - by spark-source m.s., 1D23
 - by XRF, 1F4
 - emission spectrom., 2D33
 - matrix effects in, 1D20
 - standards for use in, 2D34
 - evaluation of methods for, 2D40
 - sampling as source of error in, 5D10
 - spectrogr., 5D12
 - using three-electrode plasmatron, 6H1
 - of elements in marine, review, 4H38
 - of elements in small samples of, by activation analysis, 5A4C
 - of 5-ethyl-5-(1-methylpropyl)-2-thiobarbituric acid in 'interruption material' from abortion, by g.c., 3D79
 - of Au and Pt in, by n.a.a., 3D51
 - of heavy metals in, stripping voltamm., review, 6F1
 - of Pb in, by isotope dilution - m.s., 5B104
 - of malonaldehyde in, by h.p.l.c., 3G22
 - of Hg in different chemical forms in marine, by a.a.s. - g.l.c., 4F36
 - of Mo in, comparison of spectroph. methods for, 6D42
 - of N in, by pyrolysis - g.c., 5D19
 - digestion method for, 2D54
 - of N in Kjeldahl digests of, using KMnO_4 as oxidant, 5G1
 - of organochlorine pesticides in, by g.c., sample preparation for, 6A5C
 - of PCB in marine, 2A2C
 - of pterins in, liquid chrom., 4D292
 - of Se in, by XRF, 4D36
 - of Na in, with Beckman Astra-8 instrument, drift in, 2D42
 - of Sr in, comparison of atomic-spectrosc. methods for, 1D29
 - of α -tocopherol in, by h.p.l.c., 5D193
 - of vitamins in, by h.p.l.c., review, 6F7
 - of whole-body N and K, by n.a.a. *in vivo*, interferences in, 6D20
 - differential-sputtering correction for ion-microsc. studies of, 2J79
 - effect of temp. on stability of biogenic amines in, 4D188
 - identn. of barbiturates in, by flash alkylation - g.l.c., 1D63
 - interpretation of pyrolysis mass spectra of, 1D7
 - isolation, identn. and detmn. of steroids in, review, 4D170
 - macroscopic autoradiography of, with use of ^{14}C , 2D4
 - sepn. and identn. of pyrimidine deriv. in, by h.p.l.c. with multiple detection, 4D291
 - system for electron microsc. - XRF studies of, 1D17
 - X-ray micro-analysis of thin sections of, review, 2D3
- Biological tissues, see also *Plants*, and names of specific tissues**
- analysis of amino-acids in, by h.p.l.c. of phthalaldehyde deriv., with automated pre-column derivatisation, 5D134
 - of lipids in, liquid chrom., with flame ionisation detector, 1D128
 - of lupin alkaloids in, by g.c. and g.c. - m.s., 5G22
 - of proteins in extracts of, micro-electroph., 4J55
 - of sections of quench-frozen, with electron micro-probe, review, 5D7
 - assay of alcohol dehydrogenase in, by enzyme immunoassay, 4D310
 - of amine oxidase (flavin-containing) in, by g.l.c., 6D270
 - of α -aminolaevulinic synthase in, fluorim., 5D206
 - spectroph., 5D208
 - of creatine kinase isoenzymes in, 2D284
 - of glutathione peroxidase, reductase (NAD(P)H) and transferase in, with Centrifichem 400 centrifugal analyser, 4D307
 - of IMP dehydrogenase in, radiom., 5D199
 - of kinases in, fluorim., 3D289
 - of *N*-methyltransferase in, by h.p.l.c., 6D271
 - of UDPglucosyltransferase in, by kinetic - fluorim. method, 5D210
 - of uroporphyrinogen decarboxylase in, by h.p.l.c., 5D229
 - Auger-electron- and X-ray-photoelectron-spectrom. studies of mineralised, 1A1C
 - cutting thin specimens of, with sledge microtome, 5J3
 - detmn. of acetylcholine in, review, 1D167
 - of *N*-acetyl-5-methoxytryptamine and related compounds in, by r.i.a., 5D131

Biological tissues, determination—continued

- of ATP in, specificity of bioluminescence method for, 5D196
 - of amiodarone and its metabolite in, by h.p.l.c., 5D63
 - of amphetamine and methylamphetamine in, by g.l.c. of tri-fluoroacetyl deriv. - chemical-ionisation m.s., 6D101
 - of amphotericin B in, by h.p.l.c., 6D119
 - of ascorbic acid in, spectroph., 1D250
 - of aspirin and its metabolites in, by h.p.l.c., 3D84
 - of bile acids in, by r.i.a., 3D194
 - of biopterin and other pterins in, by h.p.l.c., 6D263
 - of blood contamination of extracts of, spectroph., 4D7
 - of ^{10}B in, by n.a.a., 3D39
 - of camphchlor and chlordane in, by g.l.c. or g.l.c. - m.s., 3D143
 - of carbamoyl phosphate in extracts of, enzymic - fluorim., 3D200
 - of catecholamine deriv. in, by h.p.l.c., 4D190
 - of chlorpyrifos in, by g.c., and of 2,4-D and mecoprop in, by h.p.l.c., 6D141
 - of cholecystokinin in, by r.i.a., 3D230
 - of cholesterol in lipid extracts from, enzymic, 2D169
 - of cAMP and cGMP in, by enzyme immunoassay, 6D259
 - of cCMP in, by enzyme immunoassay, 1D239
 - of drugs and metabolites in, 4D47
 - of element distribution in, by PIXE and XRF, 5A4C
 - of elements in, by spark-source m.s., 1D23
 - by XRF, sample-drying procedure for, 5D9
 - emission spectrom., 2D35
 - comparison of sample-treatment procedures for, 6D15
 - using low-energy proton beams, 5A4C
 - using three-electrode plasmatron, 6H1
 - of enviroxime in homogenates of, by h.p.l.c., 1D91
 - of flunarizine in, by g.l.c., 3D132
 - of folate co-factors in, by h.p.l.c., 5D190
 - of glucose in, fibre-optic pH sensor for use in, 2D111
 - of histamine and its methyl deriv. in, by h.p.l.c., 5D126
 - of 5-hydroxy-1,3-dioxan and 4-hydroxymethyl-1,3-dioxolan in, by g.l.c. - selected-ion monitoring, 3D9
 - of imidazol-4-ylacetic acid in, enzymic - spectroph., 5D127
 - of I in, by XRF, 5J99
 - of lignocaine in, by g.l.c., 6D98
 - of NAD^+ and NADH in, by bioluminescence method, 3D275
 - of N in Kjeldahl digests of, using KMnO_4 as oxidant, 5G1
 - of organochlorine pesticides and related compounds in, by r.i.a., review, 3G30
 - of phosphates in, with Bessman phosphate analyser, 6D12
 - of Pt in, by PIXE, 5A4C
 - of PCB in eels or seals, 3H1
 - of *N*-propylnorapomorphine and related compounds in, by g.l.c. of trifluoroacetyl deriv., 6D54
 - of protein in whole fatty, spectroph., 4D242
 - of pyridoxal 5'-phosphate in, enzymic - radiom., 1D247
 - of pyridoxine metabolites in, ion-exchange chrom. - fluorim., 4D297
 - of Se in, by XRF, with pre-concn. by co-pptn. on tellurium, 5H53
 - of Sr in, comparison of atomic-spectrosc. methods for, 1D29
 - of tetra-alkyl-lead compounds in, by a.a.s., 5H5
 - of Sn distribution and speciation in, by n.a.a. - Mossbauer spectrom., 4D32
 - of α -tocopherol in, by h.p.l.c., 4D295
 - of UDPglucuronic acid in, by h.p.l.c., 1D238
 - of U α -emitters in, by co-pptn. with $\text{Fe}(\text{OH})_3$ - electro-deposition - α -spectrom., 4D31
 - identn. and detmn. of doxycycline metabolite in, by h.p.l.c., 6D62
 - of sulphonamides in, by h.p.l.c. and high-performance t.l.c., 2D95
 - isolation of *trans*-hexadecenoic and *trans*-octadecenoic acids from extracts of lipids of, by t.l.c. of methyl esters, 3D162
 - modified Cryokit for preparation of ultra-thin sections of, 4J4
 - Raman micro-probe study of calcified, 1A1C
 - secondary-ion m.s. studies of ion exchange in, 1A1C
 - sepn. and detmn. of amino-acids in cells from cultures of, by h.p.l.c. of phthalaldehyde deriv., 2D208
 - of peptides in, optical comparator system for use in, 4D238
 - of retinyl esters in, by h.p.l.c., 3D280
 - sepn. and identn. of creatine kinase isoenzymes in, electroph., 3D295
- Bioluminescence analysis, applications of, in clinical analysis, review, 4D1**
- Biopterin**, cyclic-voltamm. study of, 6D265
 - detmn. in biol. tissues or urine, by h.p.l.c., 6D263
 - in presence of related compounds, liquid chrom. - fluorim., 1D243
 - , **7,8-dihydro**-, detmn. in presence of related compounds, liquid chrom. - fluorim., 1D243
 - , **6-erythro**-(1,2-dihydroxypropyl)-5,6,7,8-tetrahydro-, analysis of oxidation products of diastereoisomers of, by h.p.l.c., 3D279
 - , **tetrahydro**-, detmn. of *L*-erythro-, in brain tissue or liver tissue, by h.p.l.c., 6D264
 - of (*R*)- and (*S*)-, in presence of related compounds, liquid chrom. - fluorim., 1D243
- Biotin**, analysis of mixtures with its analogues, by h.p.l.c., 2D278
- m.s. studies of deuterated methyl esters of, 1D252
- Biphenols**, analysis, by g.l.c. and h.p.l.c., review, 6C33
- Biphenyl**, detmn. in condiments or herbal drugs, by t.l.c. - u.v. spectroph., 1E52
- in presence of naphthalene, liquid chrom. - m.s., 1J51

Biphenyl—continued

- sepn. from other aromatic hydrocarbons, by h.p.l.c. use of multiple linear-regression analysis for calculation of conditions for, 5C30
- , **decachloro-**, detmn. in presence of decachloro-1,4-dihydro- and octachloro-naphthalene, by h.p.l.c., 4C90
- Biphenyl derivatives**, identn. in residue from dimethyl terephthalate distillation, by g.c. - m.s., 3C52
- , **bromo-**, g.c. study of photo-decomposition of, 3C121
- , **chloro-**, analysis of mixtures of, by g.c., 3H3, 3H7
- , computer routine for calculations in, 5C93
- , collection from air, comparison of adsorbents for, 1H39
- , detection, by g.c. - m.s., g.c. - m.s. or m.s. - m.s., 4D135
- , of Aroclor 1254 in blood, by g.l.c., 3D142
- , detmn., by perchlorination - g.c., 2C130, 5C92
- , in biol. materials, by g.c., 1D103
- , in biol. tissues or soil, by r.i.a., review, 3G30
- , in eels or seals, 3H1
- , in environmental materials, by g.l.c. - m.s., 3H8
- , in fish, sediments or water, by g.l.c., 1H75
- , in fish tissues, by g.l.c., 5F40
- , in foods of animal origin, by g.c., review, 4F15
- , in human milk, by g.l.c., 5D84
- , in insulating oils, by g.c., 3C85
- , in marine organisms or sediments, 2A2C
- , in municipal sludge, by h.p.l.c. - g.l.c., 3H94
- , in oils, comparison of g.c. methods for, 3C84
- , in paper-mill waste water, by g.c. - m.s., 3H99
- , in sediments, by g.c., clean-up method for, 3H75
- , by g.c. - chemical-ionisation m.s., 2H89
- , by g.c. - m.s. - m.s., 2H3
- , in waste water, by g.c., 2H108
- , in water, by g.l.c., 5H92
- , identn., by h.p.l.c. - room-temp. phosphorim., 1C55
- , of penta-, diffuse-reflectance FT i.r. spectrosc., 3C42
- , identn. and detmn. in fish or meat, liquid chrom. - g.c., 2F21
- , in technical Aroclors, by g.l.c. - m.s., 6C90
- , sepn. from organochlorine pesticides, liquid chrom., 4G18
- , —, **fluoro-**, g.l.c. and t.l.c. studies of, 5C44
- Biphenylene, tetrachloro-**, detmn. in soot by g.c. - m.s. - m.s., 2H3
- Biphenyl-2-ol**, detmn. in condiments or herbal drugs, by t.l.c. - u.v. spectroph., 1E52
- Birch**, identn. and detmn. of flavonoids in preparations of, by h.p.l.c., 3E19
- Bisacodyl**, detmn. in pharmaceutical preparations, with related compounds, by h.p.l.c., 4E81
- Bismuth**, concn., by ion flotation, 4B14
- , detection, colour reaction for, 3A12
- , reaction for, 5B21
- , detmn., a.c. polarogr., 6J161
- , anodic-stripping voltamm., 5B118
- , by a.a.s., automated system for, 2H55
- , masking agents for noble metals in, 3B107
- , sample-introduction system for, 5J109
- , complexom., with differential electrolytic potentiom. detection of end-point, 5B15
- , emission spectrom., using electrothermal carbon-cup vaporisation, 1J127
- , spectroph., with collection by adsorption on micro-cryst. naphthalene, 3B9
- , stripping potentiom., automated, review, 4J141
- , titrim., amplification reaction for, 6B119
- , in environmental materials, by h.p.l.c. of chelate complexes, 2H43
- , in lead, emission spectrom., 2B100
- , spectroph., 6B104
- , in liquid samples, spectrogr., 2J108
- , in magnesium, spectrogr., 3B44
- , in nickel alloys, by a.a.s., 2J105, 5B157
- , in presence of Sb, differential pulse anodic-stripping voltamm., 5B117
- , of other elements, gravim., 6B16
- , in sea-water, anodic-stripping voltamm., 4H45
- , in tin, by a.a.s., 5B101
- , in urine, emission spectrom., 2D37
- , in zinc, zinc chloride or zinc oxide, anodic-stripping voltamm., 4B58
- , sepn. from Co, ion-exchange chrom., 6B163
- , from Cu, ion-exchange chrom., 1J60
- , from Ir and Pd, by t.l.c., 1B6
- , from U, by ion exchange, 1J61
- , of ^{210}Bi from environmental samples, by diethyldithiocarbamate extraction, 4B140
- , from ^{210}Pb , by ion exchange, 4J53
- , from ^{210}Pb and ^{210}Po , ion-exchange chrom., 6B17
- , solvent extraction of, with aq. systems from organometallic - halide extracts, 1B14
- , with quinoline-8-carbodithioic acid, 3A14
- , with tetrachlorodithizonates, 1B17
- Bismuth, reagents for**, 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 6B104
- , morpholine-4-carbodithioic acid K salt, 3B9
- , KI, 5B21

Bismuth, reagents for—continued

- K_2CS_3 , 6B16
- 4-(1,2,4-triazol-3-ylazo)thymol, 3A12
- Bismuth alloys, Bi - Sb**, analysis, with electron micro-probe, correction for, 1J100
- Bismuth antimonide**, analysis, by electron back-scattering coeff. measurements, 5B191
- Bismuth complexes**, with arenetricarbonylchromium compounds, sepn., by h.p.l.c., 3C59
- , with catechol violet and hexadecyltrimethylammonium ions, 5B9
- Bismuth germanate**, detmn. of impurities in, spectrosc. and chemico-spectrosc. methods for, 2B180
- Bismuth oxide**, detmn. in suppositories, with ZnO, by thermal methods, 1E7
- Bisphenol A**, see *Phenol*, 4,4'-isopropylidenedi-
- Bitumen**, detmn. of acidity of, by BSI titrim. method, 2C81
- , of asphaltenes in, BSI gravim. method for, 2C82
- , of Cl^- in extracts of, spectroph., 6B140
- Blackcurrant juice**, sepn. of volatile constituents of, by g.c. with cryogenic focusing, 2J57
- Bleaching powder**, detmn. of Cl^- and ClO^- in soln. of, potentiom., with Cl^- -selective electrode, 2B136
- Blood**, analysis, micro-electrode assembly for voltamm. measurements *in vivo* and *in vitro*, 2J185
- , of amino-acids in dried spot samples on filter-paper, by h.p.l.c., 6D208
- , of gases in, comparison of control materials for, 3D21
- , source of error in, 2D52
- , with miniature FET sensors, 2J162
- , assay of arylsulphatases A and B in, fluorim., 2D296
- , of enolase isoenzymes in cells of, by immunoassay, 3D317
- , detection in urine, interpretation of reagent-strip results in, 2D16
- , of 4-aminophenazone in, by t.l.c. and u.v. spectroph., 4D91
- , of amitriptyline, imipramine, maprotiline and nomifensine in, reagents for, 4E44
- , of Aroclor 1254 in, by g.l.c., 3D142
- , of barbiturates in post-mortem, by g.l.c., 1D62
- , of benzodiazepine deriv. in, by formation of primary aromatic amines, 2D79
- , of disulphides and thiols in, by h.p.l.c., 3D8
- , of glucose-6-phosphate dehydrogenase and phosphogluconate dehydrogenase in, paper chrom., 1D256
- , of occult, prevention of ascorbate interference in, 1D225
- , detection and detmn. of benzodiazepine deriv. and paracetamol in, by h.p.l.c., 3D94
- , of chloramphenicol in, by g.c. of TMS deriv. - m.s. or by h.p.l.c., 1F25
- , detmn. in tissue extracts, spectroph., 4D7
- , of acidic drugs in, by g.c. of methyl deriv., 6D51
- , of aconitic acid in, fluorim., 2C32
- , of Al in, differential pulse polarogr., 3H51
- , of 1-amino-3-(3-bromophenyl)pyrrolidine-2,5-dione in, by g.l.c., 1D67
- , of NH_3 in, by micro-diffusion - colorim., 5D20
- , of amoxapine in, by g.l.c., 1D75
- , of amphetamine and related compounds in, by r.i.a., 6D100
- , of As in, spectroph., 1D46
- , of ascorbic acid in, spectroph., 1D250
- , of bradykinin in, by r.i.a., 1D186
- , extract purification necessary in, 3D226
- , of Br in, by XRF, 2D60
- , of Cd in, by a.a.s., 6J89
- , effect of container material, storage time and temp. in, 3D35
- , by Zeeman a.a.s., 1D32
- , automated, 6D18
- , of carbofuran and its metabolites in, by t.l.c., 1D112
- , of carbonylhaemoglobin in, comparison of methods for, 6D138
- , spectroph., 3D140, 3D141
- , of chloramphenicol and its degradation products in, by h.p.l.c., 5E20
- , of chlordanes and related compounds in, by g.l.c., 2D105
- , of chlormethiazole in, by h.p.l.c., 5D44
- , of chloroquine and its metabolite in, by g.l.c., 6D118
- , of chloroquine and its metabolite in constituents of, by h.p.l.c., 3D117
- , of chlorpromazine in, differential pulse voltamm., 6J166
- , of Cr in, by a.a.s., 1D47
- , by automated Zeeman a.a.s., 6D18
- , of cimetidine in, by h.p.l.c., 1D90
- , of citric acid in, fluorim., 2C32
- , of codeine in, by g.c., 6D55
- , of cAMP in free and protein-bound forms in, by competitive protein-binding method, 5D188
- , of dacarbazine and its metabolite in, polarogr., 3D122
- , of doxepin in, spectroph., 3E49
- , of drugs in, by g.c. or g.c. - m.s., effects of contaminants in collection devices for, 3D53
- , of drugs in samples from patients treated by haemoperfusion - haemodialysis, by g.l.c., 1D65
- , of drugs and metabolites in, 4D47
- , of elements in, emission spectrom., matrix effects in, 1D20
- , using three-electrode plasmatron, 6H1

Blood, determination—continued

- of endothal in, by g.l.c. of anhydride, 4D138
- of ethanol in, East German standard procedures for, 3D133
- of ethylmorphine in, by g.c., 6D55
- of etomidate in, by g.l.c. or h.p.l.c., 4D82
- of α -foetoprotein in dried spot samples on filter-paper, immunoradiom., 4D262
- of glucine in, spectroph., 1D53
- of glucose in, by differential pH technique, 2D112
- enzyme electrode for, 2J174
- fibre-optic pH sensor for use in, 2D111
- miniature sensors for use in, 4D141
- review of enzyme electrodes for, 2D114
- spectroph., 4D140
- with bi-enzyme amperom. electrode, 6J151
- with Eytone reflectance colorimeter, 3D148
- with Visidex reagent strip, 3D147
- of glycerol formal in, by g.l.c. - chemical-ionisation m.s., 6D120
- of glycosylated haemoglobin in, affinity chrom., 4D278
- colorim., 2D267
- comparison of commercial methods for, 2D264
- effect of aspirin in, 3D269
- interference by foetal haemoglobin and labile glycosylated haemoglobin in, 3D270
- mobile affinity electroph., 2D268
- spectroph., 2D266
- of glycosylation in, semi-automated, 5D180
- of Au in, anodic-stripping voltamm., 2D44
- of haematocrit of, by gel-diffusion method, 4D8
- of haemoglobin A₁ in, gel electroph., significance of labile fraction in, 1D226
- of haemoglobin S in, spectroph., 2D265
- of histamine in, by h.p.l.c., 5D126
- of 3-hydroxybutyrate in, by g.l.c., 2D140
- of 5-hydroxytryptamine in, by h.p.l.c., 5D132
- of ketanserin in, by h.p.l.c., 3D111
- of kinin in, by r.i.a., 4D231
- of lasalocid in, by h.p.l.c., 1D94
- of Pb in, by a.a.s., 1D41, 4D33, 6J89
 - effect of container material, storage time and temp. in, 3D35
 - matrix effects in, 3D42
 - O ashing and matrix modifiers for, 6D35
 - by a.f.s., 1D40
 - by isotope dilution - plasma-source m.s., 2J146
 - by Zeeman a.a.s., 1D32
 - automated, 6D18
- of lignocaine in, by g.l.c., 6D98
- of Mn in, by automated Zeeman a.a.s., 6D18
- of maprotiline in, by g.l.c. of heptafluorobutyl deriv., 1D76
- of Hg in, by a.a.s., 2D48
- of 4,4'-methylenebis(aniline) in, by g.l.c. of trifluoroacetyl deriv., 6D134
- of 1-methylheptyl 4-bromoacetoacetate in, by isotope dilution - t.l.c., 6D162
- of morphine in, by h.p.l.c., 3D57
- of obidoxime chloride in, polarogr., 4D126
- of organochlorine compounds in, by g.c. - m.s., 1D111
- of orphenadrine in, by g.l.c., 4D112
- of oxprenolol and its metabolites in, by isotope dilution - h.p.l.c., 4D110
- of oxprenolol enantiomers in, by isotope dilution - h.p.l.c., 4D111
- of penicillamine in, by h.p.l.c., 2D102
- of pH in, by reference to aq. buffer soln., 5D14
- with polymeric liquid membrane electrode, 3D26
- of phenol in, by g.c., 4D133
- of phenylalanine in dried spot samples on filter-paper, fluorim., 6D210
- of K in, on-line, with chemical-sensitive field-effect transistors, 2D43
- potentiom., effect of erythrocytes in, 4D26
- of pralidoxime chloride in, polarogr., 4D126
- of propylthiouracil in, by h.p.l.c., 3D119
- of pyridoxal 5'-phosphate in, enzymic - radiom., 1D247
- of salicylate in, use of heparinised samples for, 2D81
- of Se in, by XRF, with pre-concn. by co-ppt. on tellurium, 5H53
- of Na in, potentiom., effect of erythrocytes in, 4D26
- of somatomedin C in, by r.i.a., 1D189
- of strophanthin acetate in, by g.l.c., 5E16
- of sugars in, with Visidex test strip, 2D107
- of tetracyclines in, by agar-diffusion test, 6F41
- of Δ^9 -tetrahydrocannabinol in, by r.i.a., 4D77
- of Δ^9 -tetrahydrocannabinol and its 9-carboxy-11-nor-deriv. in, by g.l.c. - m.s. or r.i.a., 4D78
- of Δ^9 -tetrahydrocannabinol and its metabolites in, by g.c. - chemical-ionisation m.s., 4D76
- of theophylline in, by h.p.l.c. or enzyme immunoassay, 4D56
- by nephelom. immunoassay, 5D32
- of thyrotrophin in dried spot samples of, effect of parenteral nutrition in, 2D252
- of thyrotrophin in dried spot samples on filter-paper, automated immunoradiom., 1D207

Blood, determination of thyrotrophin in dried spot samples—continued

- by r.i.a., 4D261
- significance of filter-paper quality in, 1D208
- of thyroxine in free form in, by r.i.a., interference in use of Gamma-Coat kit for, 1D180
- of toluene in, by g.l.c., using purge-and-trap method, 5D83
- of trioxsalen in, by h.p.l.c., 4D124
- of vitamin U in, liquid chrom. - t.l.c. - g.l.c. of decomposition product, 4D305
- of Zn in, polarogr., 4D29
- extraction of phenols from, with liquid-membrane enzyme reactor, 4D131
- identn. and detmn. of disulfoton in, by g.c. - m.s., 2D106
- of drugs in, by g.c. and g.c. - m.s., 5D24
- report of proceedings of course on free hormones in, 6A4
- Blood plasma, analysis, evaluation of ion-selective electrolyte slides for, 2D38**
 - with centrifugal analyser, comparison of standardisation techniques for use in, 1D13
- of amino-acids in, by h.p.l.c., 6D208
 - by h.p.l.c. of phthalaldehyde deriv., 1D168
 - by h.p.l.c. of phthalaldehyde - ethanethiol deriv., 1D171
- effect of sampling site in, 3D209
- ion-exchange chrom. - spectroph., interference by EDTA from Vacutainer tubes in, 4D210
- of arachidonic acid metabolites in, by g.c. - chemical-ionisation m.s., 2D149
 - by h.p.l.c., extraction method for, 5D106
- of hydroxy-acids in, by g.l.c., 1D121
- of lipids of, by field-desorption m.s., 2D155
- of steroid sulphates in, by immunoabsorption - g.c. of penta-fluorobenzoyloximes - m.s., 2D175
- of steroids in, by immunoabsorption - g.c. - m.s., 2D173
- assay of aspartate aminotransferase in, comparison of standard methods for, 3D292
- of creatine kinase and lactate dehydrogenase isoenzymes in, effects of sample storage and sample dilution in, 6D269
- of dipeptidyl carboxypeptidase in, spectroph., 4D330
- of kallikrein in, radiom., 4D331
- of placental-type alkaline phosphatase in, by enzyme immunoassay, 6D278
- of prostaglandin synthase inhibitors in, by r.i.a., 1D258
- of proteases in, automated colorim., 6D287
- of renin in, effect of sample-collection and -storage conditions, in, 1D277
- characterisation of F compounds in, by g.c., 2D103
- detection of cocaine in, by h.p.l.c., 3E14
 - of methaqualone in, by enzyme immunoassay, 4D79
- detection and detmn. in meat products, immunoturbidim., 4F33
- of nicotine in, by g.c. - m.s., 1D109
- detmn. of *N*-acetyl-5-methoxytryptamine in, by r.i.a., 2D203
- of *N*-acetylneuraminic acid in CMP-bound and free forms in, enzymic - radiom., 5D171
- of acrylonitrile in, by g.c., 4D130
- of adenosine in, by h.p.l.c., 4D289
- of adrenalene in, enzymic - radiom., 1D157
- liquid chrom. - coulom., 6D201
- of adriamycinol in, by h.p.l.c., 3D68
- of aldosterone in, by r.i.a., 2D183
- of alfentanil in, by r.i.a., 1D68
- of Al in, by a.a.s., identn. of contamination sources in, 3D40
- of aminoglycosides in, by h.p.l.c., 4D64
- of 4-aminohex-5-enoic acid enantiomers in, by g.l.c. of *N*-tri-fluoroacetyl deriv. of methyl esters - m.s., 6D77
- of amiodarone in, by h.p.l.c., 6D109
- of amiodarone and its metabolite in, by h.p.l.c., 1D87, 5D63
- of amitriptyline in, by g.c., 2D85
- of amitriptyline in free and bound forms in, by dialysis - g.c. - m.s., 2D84
- of ammonia-N in, potentiom., with ion-selective electrode, 6D37
- of amoxapine and its metabolites in, by h.p.l.c., 2D86
- of amphetamine deriv. in, by h.p.l.c., 4D106
- of amphotericin B in, by h.p.l.c., 6D119
- of antiepileptic drugs in, by h.p.l.c., 5D46
- comparison of methods for, 5D45
- of antithrombin III in, review, 6D235
- with Du Pont aca analyser, 4D251
- of apolipoprotein B in, by radial immunodiffusion, 6D252
- of apomorphine and *N*-propylorapomorphine in, by h.p.l.c., 6D53
- of aprindine in, by g.l.c. - chemical-ionisation m.s., 6D108
- of [*guanidino*-¹⁵N]arginine in, by g.c. of trifluoroacetyl deriv. - m.s., 5D142
- of arginine-vasopressin in, by r.i.a., 6D221
- of ascorbic acid in, by h.p.l.c., 6D268
- of asparagine in, by automated dialysis - enzymic method, 4D218
- of aspirin and its metabolites in, by h.p.l.c., 3D84
 - by t.l.c. - fluorim., 4D89
- of atracurium besylate in, by h.p.l.c., 6D114
- of azapropazone in, by h.p.l.c., 1D99
- of azapropazone and its metabolite in, by h.p.l.c., 3D89

Blood plasma, determination—continued

- of BD 40 in, by h.p.l.c., 5D77
 of bamifylline and its metabolites in, by h.p.l.c., 5D66
 of benoxaprofen glucuronide in, by g.l.c., 3D90
 of benperidol in, by g.l.c., 5D54
 of bepridil in, by g.l.c., 3D109
 of bopindolol and its metabolite in, by h.p.l.c., 5D62
 of brotizolam and its metabolite in, by g.c. of TMS deriv., 5D43
 of bupivacaine in, by g.l.c., 4D105
 of bupropion in, comparison of r.i.a. methods for, 3D96
 of caffeine and its metabolites in, by h.p.l.c., 5D29
 of carbamazepine in, by g.l.c. or h.p.l.c., 4D87
 of β -carotene in, by h.p.l.c., 5D174
 of catecholamine deriv. in, by h.p.l.c., comparison of detection systems for, 4J46
 with post-column derivatisation with 2-cyanoacetamide, 6D200
 comparison of methods for, 4D189
 review, 2D194
 of cefmenoxime in, by h.p.l.c., 5D38
 of cefoperazone in, by h.p.l.c., 4D62
 of ceftriazone in, by h.p.l.c., 5D37
 of celiprolol in, by h.p.l.c., 1D82
 spectroph., 1D81
 of chloramphenicol in, by t.l.c. - h.p.l.c., use of Sep-Pak C₁₈ cartridges in, 2D68
 of Cl⁻ in, by automated controlled-dispersion method, 2J11
 of chloroquine and its metabolite in, by h.p.l.c., 3D117
 of 6-chloro-2,3,4,5-tetrahydro-1-(4-hydroxyphenyl)-1H-3-benzazepine-7,8-diol in, by h.p.l.c., 1D84
 of chlorpyrifos in, by g.c., and of 2,4-D and mecoprop in, by h.p.l.c., 6D141
 of cholesterol in different chemical forms in, by isotope dilution - field-desorption m.s., 1D132
 of cholesterol in high-density lipoproteins of, comparison of sepn. methods for use in, 2D166
 of cibenzoline in, by h.p.l.c., 5D64
 of cimetidine in, by h.p.l.c., 1D89, 4D114, 5D70
 of cisplatin metabolites in, by h.p.l.c., 6D121
 of citrulline in, spectroph., 2D217
 of clioquinol and its metabolites in, by g.c. of acetyl deriv. - m.s., 4D116
 of clomipramine and its metabolite in, by h.p.l.c., 4D102
 of clonazepam in, by g.l.c., 6D75
 by h.p.l.c., 2D80
 of clorazepate K salt and its metabolite in, by h.p.l.c., 5D57
 of cobalamins in, extraction method for, 4D301
 liquid chrom. - t.l.c. - bio-autogr., 4D302
 of codeine in, by h.p.l.c., 6D56
 of co-dergocrine in, by r.i.a., 4D55
 of colterol in, by h.p.l.c., 5D67
 of copovithane in, by h.p.l.c. of trinitrobenzenesulphonyl deriv. of hydrolysis product, 5D76
 of corticotrophin in, by r.i.a., elimination of interference in CIS-Sorin method for, 3D231
 of cotinine in, by g.l.c., 1D108
 of C-peptide in, review, 2D231
 of creatinine in, with use of enzyme reactor and NH₃ sensor probe, 3D208
 of 17 α -cyanomethyl-17 β -hydroxyoestra-4,9-dien-3-one in, by r.i.a., 3D70
 of cyclandelate metabolite in free and conjugated forms in, by g.l.c., 3D110
 of cAMP and cGMP in, by enzyme immunoassay, 6D259
 of cyclophosphamide in, by t.l.c. - fluorim., 4E77
 of cyclosporin in, by h.p.l.c., 2D74, 3D67
 of cytarabine and its metabolite in, by h.p.l.c., 6D69
 of DL 111-IT in, by g.c., 6A5C
 of dehydroascorbic acid in, by derivatisation with *o*-phenylenediamine - h.p.l.c., 6D268
 of dehydroepiandrosterone sulphate in, by immunoadsorption - fast-atom-bombardment m.s., 3D186
 of 4-demethoxydaunorubicin and its 13-dihydro-deriv. in, by h.p.l.c., 6D65
 of 11-deoxy-13,14-dihydro-15-oxo-11,16-cycloprostaglandin E₂ in, by r.i.a., 6D170
 of dexamethasone in, by r.i.a., 6D68
 of dextropropoxyphene and its metabolite in, by g.l.c., 5D51
 of diazepam and its metabolites in, by g.l.c., 4D97
 of diclofenac sodium in, by h.p.l.c., 4D95
 of diflunisal in, by g.l.c. of methyl deriv., 6D86
 of dihydro-ergocristine and -ergotamine in, by h.p.l.c., 3D58
 of 13,14-dihydro-15-oxoprostaglandin F_{2 α} and 6-oxoprostaglandin F_{1 α} in, by r.i.a., 6D169
 of diltiazem in, by g.l.c., 3D107
 of diltiazem and its metabolite in, by h.p.l.c., 3D108
 of 16,16-dimethyl-*trans*- Δ^2 -prostaglandin E₁ in, by g.l.c. of *t*-butyl-dimethylsilyl ether of methyl ester, 4D68
 of 2-(dipropylamino)tetralin-5,6- and -6,7-diols in, by h.p.l.c., 6D129
 of disopyramide in, by h.p.l.c., 4D50
 of disopyramide and its metabolite in, by h.p.l.c., 6D107

Blood plasma, determination—continued

- of dobutamine in, by h.p.l.c., 6D102
 of doxepin and its desmethyl deriv. in, by g.c. - m.s., 5D60
 of doxorubicin in, by h.p.l.c., 3D68
 of droperidol in, by g.l.c., 5D54
 of drugs in, by automated fluorim. or spectroph. method after enzymic hydrolysis, 1D50
 by h.p.l.c., 3D55
 of drugs and their metabolites in, by automated h.p.l.c., 4D48
 of enviroxime in, by h.p.l.c., 1D91
 of ethanediol in, by ultra-filtration - g.l.c., 1D102
 of ethyl biscoumacetate in, by h.p.l.c., 3D124
 of ethylenediamine in, by h.p.l.c., 4D107
 of etomidate in, by g.l.c. or h.p.l.c., 4D82
 of etoposide and its metabolites in, by h.p.l.c., 6D124
 of Evans blue in, by h.p.l.c., 5D80
 of fatty acids in lipid fractions from, by t.l.c. - g.c. of methyl esters, 4D161
 of fenquixone in, by g.l.c. of tetramethyl deriv., 3D128
 of fentanyl in, by g.l.c., 3D86
 of ferritin in, immuno-radiom., effect of sample-collection method in, 6D244
 of fibrinogen in, automated turbidim., with Du Pont *aca* analyser, 4D257
 of fibrinopeptide A in, by r.i.a., 3D229
 of flecainide in, by h.p.l.c., 3D114
 of flecainide acetate in, fluorim., 1D88
 of flumecinol in, by g.l.c., 4D125
 of flunarizine in, by g.l.c., 3D132
 of F in, by open ashing technique, 4D41
 of fluorouracil in, by t.l.c. - densitom., 4D121
 by t.l.c. - fluorim., 4D122
 u.v. spectroph., 3D120
 of fluphenazine in, by high-performance t.l.c. - fluorim., 3D92
 of flurazepam and its metabolites in, by h.p.l.c., 4D80
 of free fatty acids in, fluorim., 2D135
 of frusemide and its metabolite in, by h.p.l.c., 3D127
 of glucagon in, by r.i.a., 1D187
 of glucocorticoids in, by h.p.l.c., 3D72
 of glucose in, by differential pH technique, 2D112
 continuous-flow enzymic - colorim., 1D14
 enzyme electrode for, 2J174
 with Eytone reflectance colorimeter, 3D148
 of glyceryl trinitrate and its metabolites in, by g.c. - m.s., 2D88
 of glycosylprotein in, spectroph., 1D214
 of guanfacine in, by g.c. - m.s., 2D91
 of haloperidol and its metabolite in, by h.p.l.c., 4D99
 of heparin in endogenous and exogenous forms in, by competitive-binding method, 3D155
 of heptaminol in, by h.p.l.c. of phthalaldehyde deriv., 6D106
 of histamine in, enzymic - radiom., 1D161
 of hydrochlorothiazide in, by automated h.p.l.c., 2D99
 of hydrocortisone in, by g.c. of methoxime - TMS ether deriv. - m.s., 6D193
 by isotope dilution - m.s., 1D143
 of hydrogenated ergot alkaloids in, by t.l.c., 6A5C
 of 3-hydroxybutyrate in, by g.l.c., 2D140
 of 5-hydroxy-1,3-dioxan in, by g.l.c. - selected-ion monitoring, 3D9
 of 4-hydroxymethyl-1,3-dioxolan in, by g.l.c. - selected-ion monitoring, 3D9
 of 20 α -hydroxy-9 β ,10 α -pregna-4,6-dien-3-one in, by g.l.c. of heptafluorobutyl deriv. - m.s., 3D71
 of 5-hydroxytryptamine in platelet-rich, by h.p.l.c., 5D132
 of 5-hydroxytryptamine and its metabolites in, comparison of h.p.l.c. methods for, 1D177
 of hypoxanthine in, by h.p.l.c., sample storage for, 4D290
 of indoxazine in, by g.l.c. of heptafluorobutyl deriv., 3D97
 of indocyanine green in, by h.p.l.c. or spectroph., 1D100
 of indomethacin in, by h.p.l.c., 5D61
 of iodothyronine deriv. in, by r.i.a., 3D217
 of iohexol in, by h.p.l.c., 6D127
 of isosorbide dinitrate and its metabolites in, by h.p.l.c. - thermal energy analysis, 3D106
 of ketamine in, by g.l.c., 4D104
 of ketanserin in, by h.p.l.c., 3D111, 3D129
 of ketobemidone and its metabolite in, by g.l.c. of ethoxycarbonyl deriv. - m.s., 4D92
 of ketotifen and its metabolites in, by g.c. - m.s., 2D94
 of kinin in, by r.i.a., 4D231
 of lactate in, by g.l.c., 2D140
 enzymic - fluorim., 6D160
 of levodopa in, by h.p.l.c., 2D72
 of loxapine in, by g.l.c. - m.s., 1D74
 of MDL 17,043 in, by h.p.l.c., 3D115
 of MEN 935 in, by h.p.l.c., 5D68
 of maleic anhydride - divinyl ether copolymer in, by h.p.l.c., 3D123
 of mandelic acid in, by g.c. - m.s., comparison of internal standards for, 2D146
 of maprotiline and its metabolites in, by h.p.l.c., 2D86
 of melperone and its metabolite in, by g.l.c. - m.s., 6D90

Blood plasma, determination—continued

- of metallothionein I in, by r.i.a., 6D232
- of methylamine in, by h.p.l.c. of trinitrobenzenesulphonyl deriv., 5D76
- of metoprolol in, by g.l.c. after reaction with phosgene, 4D109
- by g.l.c. of heptafluorobutyl deriv., 3D101
- of metoprolol and its metabolite in, by h.p.l.c., 3D102
- automated, 1D80
- of metronidazole in, differential pulse polarogr., 1D92
- of minaprine and its metabolites in, by h.p.l.c., 5D58
- of misonidazole in, by h.p.l.c., 1D93
- of mitomycin in, by h.p.l.c., 6D64
- of nantradol in, by h.p.l.c., 4D73
- of nicotine in, by g.l.c., 1D108, 5D87
- of nicoumalone and its metabolites in, by h.p.l.c., 6D126
- of nifedipine in, by g.l.c., 2D89
- by h.p.l.c., 1D83
- of noradrenaline in, by h.p.l.c., 4D197
- enzymic - radiom., 1D157
- liquid chrom. - coulomb., 6D201
- of nortriptyline in, by g.c., 2D85
- of nortriptyline and its desmethyl deriv. in, by g.l.c., 6D96
- of nortriptyline in free and bound forms in, by dialysis - g.c. of trifluoroacetyl deriv. - m.s., 2D84
- of ochratoxin A in, by h.p.l.c. of *O*-methyl-methyl ester deriv., 5F36
- of oestradiol in, by immunoadsorption - g.c. of heptafluorobutyrate - m.s., 2D172
- by immunoadsorption - g.l.c. of bis(TMS) ether - m.s., 4D175
- of oestriol in, by h.p.l.c., 4D176
- of ornidazole and its metabolites in, by h.p.l.c., 5D73
- of oxcarbazepine in, by h.p.l.c., 6D76
- of oxmetidine and its metabolites in, comparison of h.p.l.c. methods for, 5D69
- of 2-oxo-acids in, by h.p.l.c. of quinoxalinol deriv., 5D99
- of 6-oxoprostaglandin $F_{1\alpha}$ in, by r.i.a., 5D107
- of oxprenolol and its metabolites in, by isotope dilution - h.p.l.c., 4D110
- of oxprenolol enantiomers in, by isotope dilution - h.p.l.c., 4D111
- of paracetamol in, by manual colorim. and kit methods, 4D90
- of pefloxacin and its metabolites in, by h.p.l.c., 3D116
- of *p*-penicillamine and its disulphide in, by h.p.l.c., 6D128
- of pentachlorophenol in, by g.l.c., 1D105
- of peptidoaminobenzophenone and its metabolites in, by g.l.c. of trifluoroacetyl or TMS deriv. - negative-ion chemical-ionisation m.s., 1D73
- of perhexiline in, by g.l.c., 6D112
- of pethidine and its metabolite in, by g.l.c. of carbamate deriv., 6D78
- of phenazone in, by h.p.l.c., 6D84
- of phendimetrazine in, by g.l.c. of acetyl deriv., 6D104
- of phenobarbitone in, by polarisation fluoro-immunoassay, 1D64
- of phenol in, by g.l.c., 1D105
- of phyloquinone in, differential pulse polarogr., 1D60
- of physostigmine in, by h.p.l.c., 3D59
- of pimozone in, by g.l.c., 5D54
- of piperacillin in, ion-exchange chrom. - spectroph., 4D202
- of piperacillin in, by h.p.l.c., 3D64
- of plasminogen in, with Du Pont *aca* analyser, 4D251
- of *cis*-platinum anti-cancer drugs in, by h.p.l.c., 4D119
- of polyamines in hydrolysates of uraemic, by h.p.l.c., 3D198
- of pramiracetam in, by g.l.c., 6D131
- of primaquine in, spectroph., 4D115
- of primary or secondary amines in, by g.l.c. of pentafluorobenzoyl deriv., 4D52
- of procainamide and its *N*-acetyl deriv. in, by h.p.l.c., 4D50
- of prochlorperazine in, by r.i.a., 5D53
- of progesterone in, by r.i.a., use of reference plasma samples in, 2D11
- evaluation of r.i.a. kits for, 6D188
- of *N*-propylorapomorphine and related compounds in, by g.l.c. of trifluoroacetyl deriv., 6D54
- of prostacyclin metabolites in, by r.i.a., 5D107
- of purine and pyrimidine deriv. in, by h.p.l.c., 6D262
- of pyridoxal phosphate in, enzymic - potentiom., with CO_2 -selective electrode, 2D277
- enzymic - radiom., 4D298
- of pyridoxine metabolites in, ion-exchange chrom. - fluorim., 4D297
- of quinidine in, by h.p.l.c., 4D50
- comparison of methods for, 6A5C
- of razoxane in, by h.p.l.c., 6D123
- of reproterol in, by h.p.l.c., 6D103
- of reserpine in, by h.p.l.c., 6D58
- of retinol in, by h.p.l.c., 4D293
- of Ro 03-8799 in, by h.p.l.c., 5D78
- of salbutamol in, by automated g.c. - m.s., 1D86
- of salicylic acid and its metabolites in, by h.p.l.c., 5D50
- of Na cromoglycate in, by r.i.a., 2D101
- of somatomedin in, by r.i.a., 1D188
- of somatostatin in, by r.i.a., extraction method for, 2D230
- of steroids in, accuracy and precision of results in, 4D172
- of stilboestrol in, by g.c. - m.s., review, 1D97

Blood plasma, determination—continued

- of sufentanil in, by r.i.a., 1D68
- of sulphasalazine metabolites in, by h.p.l.c., 6D116
- of sulphinpyrazone in, by h.p.l.c., 1D98
- of sulprostone in, by r.i.a., 2D73
- of tacrine in, by h.p.l.c., 6D97
- of tamoxifen in, by g.c. - m.s., review, 1D97
- of terbutaline in, automated multi-dimensional liquid chrom., 1D85
- by h.p.l.c., 3D98
- of testosterone in, by r.i.a., use of reference plasma samples in, 2D11
- of Δ^9 -tetrahydrocannabinol in, by h.p.l.c., 4D73
- by r.i.a., 4D77
- of Δ^9 -tetrahydrocannabinol and its metabolites in, by g.c. - chemical-ionisation m.s., 4D76, 5D42
- by h.p.l.c. - r.i.a., 4D74
- of theophylline in, by enzyme immunoassay, sampling methods for, 5D30
- by g.c., 6A5C
- by h.p.l.c., automated, 3D60
- by t.l.c. - densitom., 4D58
- of theophylline and its metabolites in, by g.l.c. of propyl deriv. - m.s., 6D59
- of thiopentone in, by h.p.l.c., 3D78
- of thioroxine in free form in, problems in use of kits for, 4D224
- of tocainide enantiomers in, by g.l.c. of heptafluorobutyl deriv., 6D111
- of α -tocopherol in, by h.p.l.c., 4D293, 4D295
- of tolaxatone in, by g.l.c. of TMS deriv., 6D93
- of trenbolone in, by r.i.a., 3D74
- of triamcinolone acetonide in, by r.i.a., 2D71
- of triazolam and its metabolite in, by g.l.c. of TMS deriv., 6D92
- of tricyclic antidepressant drugs in, by g.l.c., 3D95, 5D59
- by h.p.l.c., 4D100, 6D95
- of *N*-trideuteroacetylsulfamerazine and its metabolites in, by h.p.l.c. - m.s., 2D96
- of triglycerides in, by g.l.c., 4D162
- enzymic, with centrifugal analyser, 6D176
- of troxidone and its metabolite in, by g.l.c., 3D80
- of tryptophan and its metabolites in, by h.p.l.c., with enrichment on pre-column, 1D178
- comparison of h.p.l.c. methods for, 1D177
- of urea in, continuous-flow enzymic - colorim., 1D14
- drug interference in reagent strip method for, 4D185
- of valproic acid in, specificity of methods for, 5D48
- of vasodilators and their metabolites in, by h.p.l.c., 3D105
- of xanthine in, by h.p.l.c., 4D290
- of ^{66}Zn -to- ^{67}Zn ratio in, using plasma ion source, 2B98
- extraction of 17α -hydroxyprogesterone from, gel chrom., 6D189
- of phenols from, with liquid-membrane enzyme reactor, 4D131
- identn. of 9,10-epoxystearate in, by g.l.c. - m.s., 4D156
- of levomepromazine metabolites in, by g.c. - m.s., 1D69
- proteins of, see *Proteins, blood-plasma*
- sepn. of aldosterone from other steroids in, by t.l.c., with use of inert markers, 1D145
- of benzodiazepine deriv. and their metabolites in, by h.p.l.c., 1D71
- of lipoproteins of, and detmn. of mol. wt. of low-density lipoproteins in, by high-performance gel filtration, 2D256
- sepn. and detmn. of 'middle molecule' b4-2 in, liquid chrom., 4D227
- of steroids in, liquid chrom. - r.i.a., 1D140
- Blood platelets, analysis, interference due to presence of formaldehyde in, 2D32**
- detmn. of fatty acids in lipid fractions from, by t.l.c. - g.c. of methyl esters, 4D161
- of glycolytic intermediates and nucleotides in, by pulse-labelling with $^{32}PO_4^{3-}$ - paper chrom., 5D6
- erroneous counts for, in use of Coulter model S Plus counter, 2D17
- Blood serum, analysis, comparison of methods for, using pattern recognition, 2D21**
- effect of lipaemia in SMAC method for, 2D19
- evaluation of ion-selective electrolyte slides for, 2D38
- with centrifugal analyser, comparison of standardisation techniques for use in, 1D13
- with use of Ames Seralyzer, 2D26
- of endogenous fluorescent substances in, by h.p.l.c., 4D6
- of fatty acids in lecithins in, by t.l.c. - g.l.c. of methyl esters, 4D165
- of glycoproteins in, electroph. - fluorim., 1D206
- gel electroph., comparison of staining methods for, 6D247
- assay of β -*N*-acetyl-*p*-glucosaminidase and alkaline phosphatase in, fluorim., with Multistat III centrifugal analyser, 4D309
- of acid phosphatase in, by kinetic - spectroph. method, 1D267
- interference by bilirubin in, 1D268
- with centrifugal analyser, effect of bilirubin in, 6D281
- of alcohol dehydrogenase in, by enzyme immunoassay, 4D310
- of alkaline phosphatase in, spectroph., 6D277
- of amine oxidase (flavin-containing) in, fluorim., 1D257
- of aminopeptidase in, spectroph., 4D328, 6D286
- of aminopeptidase (cytosol) in, with NH_3 -gas-sensing electrode, 5D225
- of α -amylase in, by SMAC method, 1D270
- spectroph., 1D271

Blood serum, assay—continued

- of aspartate aminotransferase in, comparison of standard methods for, 3D292
- spectroph., 3D291
- of aspartate aminotransferase isoenzymes in, by differential kinetic - spectroph. method, 4D318
- of aspirin esterase in, spectroph., 3D298
- of creatine kinase in, spectroph., 6D274
- of creatine kinase isoenzyme MB in, effect of sample dilution in, 6D276
- of enolase isoenzymes in, by immunoassay, 3D317
- of esterases in, chromogenic substrates for, 4D322
- of guanine deaminase in, automated spectroph., 5D227
- of heat-stable alkaline phosphatase in, fluorim., 2D293
- of 2-hydroxybutyrate dehydrogenase and lactate dehydrogenase in, continuous-flow colorim., 1D255
- of isomylases in, comparison of methods for, 2D297
- of prostatic acid phosphatase in, by immuno-pptn. - spectroph., 6D280
- by r.i.a., 1D265
 - effect of hyperlipidaemia in, 2D295
 - effect of substrate concn. in, 2D294
- immunoenzymic, 1D266
- of superoxide dismutase (Mn-containing) in, by enzyme immunoassay, 1D259
- of triacylglycerol lipase in, chromogenic substrate for, 4D323
- colorim., potentiom., or titrim., 1D264
- nephelom., or turbidim., elimination of interference in, 2D287
- detection of methaqualone in, by enzyme immunoassay, 4D79
- of placental alkaline phosphatase in, by r.i.a., 2D292
- of therapeutic drugs in, with solid-phase reagent strips, 6D49
- detection and detmn. of barbiturates and benzodiazepine deriv. in, with EMIT-st system, 1D61
- of chloramphenicol in, by g.c. of TMS deriv. - m.s. or by h.p.l.c., 1F25
- detmn. of aflatoxins in, by h.p.l.c., comparison of extraction methods for, 5D88
- of Al in, by a.a.s., 2D49
- of α -amanitin in, by h.p.l.c., 3D139
- of amatoxins in, by r.i.a., 5D89
- of amiodarone and its metabolite in, by h.p.l.c., 3D112
- of amoxicillin in, by h.p.l.c., 6D60
- of ampicillin in, fluorim., effects of storage conditions in, 4D61
- of aniline in, by g.c. of P-containing deriv. - m.s., 2D104
- by isotope dilution - g.l.c. - m.s., 1H80
- of antitumour drugs in, by h.p.l.c. - m.s., 3J113
- of apolipoprotein A-1 in, immunonephelom., 2D257
- of apolipoprotein E in, immunonephelom., 4D268
- of arginine in, with enzyme electrode, 4D220
- of ascorbic acid in, spectroph., 1D250
- of bile acid glucuronides in, by g.c. of hexafluoroisopropyl tri-fluoroacetyl deriv. - m.s., 3D196
- of bile acids in, by automated bioluminescence method, 4D14
- by enzymic cycling method, 1D147
- by enzymic dehydrogenation - bioluminescence method, 2D188
- by enzymic oxidation - h.p.l.c. of dansyl deriv., 3D191
- interference by fusicidic acid in enzymic method for, 1D149
- of bile acids in free and conjugated forms in, by h.p.l.c., 3D190
- enzymic - fluorim., 6D194
- of bilirubin in, inter-laboratory study of spectroph. method for, 2D259
- secondary calibration standards for, 4D274
- using diazo-based dry film, 2D260
- of bilirubin in different chemical forms in, automated enzymic - spectroph., 1D221
- by h.p.l.c., 6D254
- with centrifugal analyser, 4D273
- of Br in, by n.a.a., 4D42
- by XRF, 5J99
- of CV-1808 in, by h.p.l.c., 2D90
- of Cd in, emission spectrom., reduction of interference in, 5J131
- of calcidiol in, radiom., 3D282
- of calcitonin in, by r.i.a., 2D232
- of calcitriol in, by r.i.a., 2D275
- of Ca in, by flow-injection - a.a.s. method, 3D29
- inter-laboratory study of methods for, 2D46
- potentiom., with ion-selective electrode, 6D27
- spectroph., 1D28
- of Ca in ultra-filtrate of, prepared with Amicon MPS-1 system, 3D28
- of Ca^{2+} in, by dialysis - ion chrom., 2J43
- with Nova 2 analyser, 2D47
- of carbamazepine in, by enzyme immunoassay with Abbott-VP Analyser, 2D76
- by fluoro-immunoassay, 4D88
- with centrifugal analyser, 6D71
- by h.p.l.c., 2D75, 2D77, 3D77
- interference in immunoassay methods for, 6D72
- of CO_2 in, with Beckman Astra 8 analyser, stabilisation for, 6D25
- of carotenoids in, by h.p.l.c., 5D173
- effects of sample-collection time and of sample treatment in, 6D266

Blood serum, determination—continued

- of catecholamine deriv. in, use of 'mean net standards' in, 2D197
- of cefoperazone in, by h.p.l.c., 5D35
- of cefprozime in, by h.p.l.c. with sepn. by anion exchange, 1D56
- of cephalosporins and chloramphenicol in, by h.p.l.c., 6D61
- of Cl^- in, by automated controlled-dispersion method, 2J11
- interference by Br^- in, 2D59
- of chloroquine and its metabolite in, by h.p.l.c., 3D117
- of cholesterol in, by flow-injection - enzymic - amperom. method, 2D29
- enzymic, comparison of enzymes for use in, 4D169
- of cholesterol in different chemical forms in, by isotope dilution - field-desorption m.s., 1D132
- enzymic - spectroph., 2D167, 6D183
- of cholesterol in free form in, by flow-injection - enzymic - amperom. method, 4D15
- of cholesterol in high-density lipoproteins of, effect of sample storage in, 3D184
- enzymic - spectroph., 4D168
- inter-laboratory study of, 3D182
- of cholesterol in lipoprotein fractions of, comparison of methods for, 3D183, 6D184
- of cholesterol in lipoproteins of, enzymic - fluorim., with direct measurement in effluent from zonal rotor, 6D185
- of choline in, by flow-injection - enzymic - amperom. method, 4D15
- of chorionic gonadotrophin in, by enzyme immunoassay, 2D254
- by r.i.a., 6D249
- of β -chorionic gonadotrophin in, by r.i.a., effect of hyperlipidaemia in, 2D295
- of cimetidine in, by h.p.l.c., 2D93
- of clavulanic acid in, by h.p.l.c. of imidazole deriv., 6D60
- of clonazepam and other basic drugs and metabolites in, by h.p.l.c., 6D74
- of Cu in, gel chrom. - emission spectrom., 2D41
- with Cobas Bio centrifugal analyser, 3D27
- of corticosterone in, by g.l.c. of TMS deriv. or by h.p.l.c., 3D189
- by r.i.a., 1D144
- of cortisone in, by h.p.l.c. - fluorim., 6D191
- of C-reactive protein in, immunoturbidim., with micro-centrifugal analyser, 4D259
- of creatine and creatinine in, multi-enzyme electrodes for, 2D204
- of creatinine in, by bioluminescence method, 5D122
- by flow-injection - spectroph. method, 6D205
- by h.p.l.c., 2D205, 6D203, 6D204
- by thin-film dual-slide enzymic - reflectance-spectroph. method, 4D198, 4D199
- spectroph., with IL 508 analyser, 3D207
- of cyanocobalamin in, assessment of protein-binding radioassay kit for, 4D303
- causes of falsely low results in isotope-dilution methods for, 5D195
- comparison of radiochem. kits for, 1D249
- evaluation of 'boil' and 'no-boil' kits for, 3D287
- 'improved' commercial kits for, 3D286
- of 3^H -9-diacetylmidcamycin metabolites in, by r.i.a., 6D66
- of diazepam and desmethyldiazepam in, by radio-receptor binding assay, 4D98
- of digoxin in, by enzyme immunoassay with GeMSAEC centrifugal analyser, 4D59
- by fluorescence polarisation immunoassay, 3D62
- by r.i.a., evaluation of kit for, 5D34
- of 3,3'-di-iodothyronine in, by r.i.a., 1D179
- of dipyrone metabolites in, by t.l.c., 6D83
- of disopyramide in, by h.p.l.c., 4D50
- of drugs in, by automated fluorim. or spectroph. method after enzymic hydrolysis, 1D50
- by m.s. - m.s., 5D25
- of elements in, by a.a.s., 5B20
- emission spectrom., 2D33
- effects of use of Vacutainer tubes in, 4D20
- of enterodiol and enterolactone in, by g.c. of TMS ether deriv. - m.s., 2D128
- of ephedrine in, by g.c. of P-containing deriv. - m.s., 2D104
- of equilin in, by g.c. of heptafluorobutyl deriv. - m.s., 2D70
- of ethanediol in, interference by propane-1,2-diol in, 4D129
- of ethanol in, by g.c., 4D128
- of ethimazole in, by h.p.l.c., with pre-concn. on micro-column, 1D57
- of ethimazole and its metabolites in, by h.p.l.c., 4D108, 6D99
- of ethosuximide in, by g.l.c., 2D75
- by h.p.l.c., 2D77, 3D77
- of 5-ethyl-5-(1-methylpropyl)-2-thiobarbituric acid in, by g.c., 3D79
- of etodolac in, by h.p.l.c., 3D87
- of ferritin in, by enzyme immunoassay, 1D205, 3D258, 6D245
- by sandwich enzyme immunoassay, 4D258
- comparison of r.i.a. kits for, 6D242
- immuno-radiom., 6D243
- quality-control material for, 3D50
- of F^- in, potentiom., with ion-selective electrode, 6D43
- of F in, by open ashing technique, 4D41
- of α -foetoprotein in, by enzyme immunoassay, 3D260
- effects of freezing and thawing and of sample-storage conditions in, 5D169

Blood serum, Determination of α -foetoprotein—continued

- immuno-radiom., 1D210
 of free analytes in, by one-tube equilibrium immunoassay, 2D8
 of free fatty acids in, by h.p.l.c. of naphthyl deriv., 3D158
 enzymic - spectroph., 4D154
 of galactose in, by flow-injection - enzymic - amperom. method, 4D15
 of gastrins in sulphated and non-sulphated forms in, by r.i.a., 1D198
 of gentamicin in, by fluoro-immunoassay, 6D63
 by h.p.l.c., 4D65
 with pre-concn. on micro-column, 1D57
 of glibenclamide in, by h.p.l.c., 3D126
 of glialactide in, by r.i.a., 3D125
 of glucose in, by flow-injection - chemiluminescence method, 4D139
 by flow-injection - enzymic method, with automated recycling of NAD^+ , 6D147
 by flow-injection - enzymic - amperom. method, 4D15
 by g.l.c. of *O*-methyloxime TMS deriv. - isotope-dilution m.s., 2D110
 enzyme electrode for, 2J174
 enzymic - colorim., automated, 1D116
 enzymic - spectroph., interference by metronidazole in hexokinase methods for, 6D148
 flow-through detector for, 1D15
 with enzyme electrodes, 6J152, 6J153
 with use of Ames Seralyzer, 6D13
 with use of reactive strips, 2D25
 of gluten in, by enzyme immunoassay, 1D197
 of glycerol in, by g.l.c. of TMS deriv., 5D81
 of glycosylprotein in, spectroph., 1D214
 of growth hormone in, by r.i.a., 2D245
 by sandwich enzyme immunoassay, 4D248
 of haloperidol and its metabolite in, by h.p.l.c., 4D99
 of haptoglobin in, electroph., spectroph., 2D249
 of harringtonine and homoharringtonine in, by g.c. of TMS deriv. - chemical-ionisation m.s., 1D54
 of heparin in endogenous and exogenous forms in, by competitive-binding method, 3D155
 of heptan-4-one in, by g.l.c. - m.s., 4D147
 of high-density-lipoprotein sub-fractions in, gel electroph. - g.c., 1D215
 of hydrochlorothiazide in, by automated h.p.l.c., 2D99
 of hydrocortisone in, by g.c. of methoxime - TMS deriv. - m.s., 2D182
 by h.p.l.c. - fluorim., 6D191
 of 24-hydroxycalcidiol in, by competitive protein binding, 3D283
 of *O*-(2-hydroxyethyl)rutosides in, by h.p.l.c., 3D63
 of hydroxyproline in, automated colorim., 4D216
 of 5-hydroxytryptamine in, by h.p.l.c., 5D132
 of imidazol-4-ylacetic acid in, enzymic - spectroph., 5D127
 of imipramine in, interference by thioridazine in, 4D101
 of IgE in, by enzyme immunoassay, 6D240
 of immunoglobulins in, review, 2D246
 of interferon in, by enzyme immunoassay, 1D199
 of Fe in, by flow-injection - a.a.s. method, 4D43
 gel chrom. - emission spectrom., 2D41
 spectroph., comparison of reagents for automated, 6D44
 of Fe-binding capacity of, by flow-injection - a.a.s. method, 4D43
 quality-control materials for, 3D49
 of Pb in, by a.a.s., 6J89
 of lipid fractions of, with use of MgCO_3 or $\text{MgCO}_3 \cdot \text{Mg}_2\text{Si}_2\text{O}_8$ adsorption, 2D165
 of lipids in, by t.l.c., 6D175
 of lipoprotein X in, by spectroph. detmn. of cholesterol content, 4D269
 turbidim., 3D262
 of lipoproteins in, comparison of methods for, 6D251
 of Li in, by isotope dilution - m.s., 2B24
 of lonazolac and its metabolite in, by h.p.l.c., 1D78
 of low-density lipoproteins in, by kinetic - turbidim. method, 4D266
 of α_2 -macroglobulin in, review, 3D256
 of Mg in, by flow-injection - a.a.s. method, 3D29
 of Mg in ultra-filtrate of, prepared with Amicon MPS-1 system, 3D28
 of mercaptopurine in, enzymic - fluorim., 5D75
 of Hg in, by a.a.s., 2D48
 of methotrexate and its 7-hydroxy-deriv. in, by h.p.l.c., 1D96
 of methotrexate and its metabolites in, by h.p.l.c., 6D122
 of methylformamide in, by g.c., 4D118
 of naproxen in, by t.l.c. - fluorim., 6D87
 of netilmicin in, by enzyme immunoassay, 5D39
 by h.p.l.c., 4D65
 of Ni in, by a.a.s., oxime extractants for, 4D45
 of noscapine in, by h.p.l.c., 6D57
 of obidoxime chloride in, by calculation from whole-blood level, 4D126
 polarogr. or spectroph., 1D101
 of oestradiol, oestriol and oestrone in, by g.c. of methyl ether acetate deriv. - m.s., 3D185
 of oestriol in, by h.p.l.c., 4D176
 of oestrogens in, immunoenzymic, 4D174

Blood serum, determination—continued

- of oestrone in, by g.c. of heptafluorobutyl deriv. - m.s., 2D70
 of organobromine and organochlorine compounds in, by n.a.a., 3D46
 of oxcarbazepine in, by h.p.l.c., 6D76
 of oxydilin in, fluorim., 6E53
 of oxypertine in, by h.p.l.c., 3D93, 6D89
 of paracetamol in, spectroph., 2D82
 of perphenazine and its metabolite in, by h.p.l.c., 6D91
 of phencyclidine in, by enzyme immunoassay, 4D93
 of phendimetrazine in, by g.l.c. of acetyl deriv., 6D104
 of phenobarbitone in, by enzyme immunoassay with Abbott-VP Analyser, 2D76
 by fluoro-immunoassay with centrifugal analyser, 6D71
 by h.p.l.c., 2D75, 2D77, 3D77
 by polarisation fluoro-immunoassay, 1D64
 in presence of aspirin, u.v. spectroph., 4D84
 of phenytoin in, by c.s.r., 5D47
 by enzyme immunoassay with Abbott-VP Analyser, 2D76
 by fluoro-immunoassay with centrifugal analyser, 6D71
 by h.p.l.c., 2D75, 2D77, 3D77
 interferences in immunoassays for, 4D86
 of PO_4^{3-} in, by enzymic - h.p.l.c. method, 6D39
 by t.l.c. of molybdate complex - u.v. spectroph., 2D55
 simplified spectroph. method for, 2D56
 of phosphatidylcholine in, enzymic - spectroph., 6D180
 of phosphatidylcholine in high-density lipoproteins of, enzymic, 4D167
 of phyloquinone in, by h.p.l.c., 6A5C
 of pinaverium bromide in, by g.c. of reduction product - m.s., 2D92
 of pipemidic acid in, by h.p.l.c., 6D117
 of pipothiazine and its metabolite in, by h.p.l.c., 1D70
 of piracetam in, by h.p.l.c., 4D103
 of piroxicam in, by h.p.l.c., 6D88
 of Pt in, by n.a.a., 3D52
 of post-gamma-globulin in, by r.i.a., 4D252
 of K in, potentiom., with ion-selective electrode, 6D24
 stripping potentiom., 3B6
 of pralidoxime chloride in, by calculation from whole-blood level, 4D126
 of prealbumin in, automated rate-immunonephelom., 3D252
 of primidone in, by enzyme immunoassay with Abbott-VP Analyser, 2D76
 by h.p.l.c., 2D75, 3D77
 of procainamide and its *N*-acetyl deriv. in, by h.p.l.c., 4D50
 of procainamide and its metabolite in, liquid chrom., 6D110
 of progesterone in, by enzyme immunoassay, 3D188, 4D181
 evaluation of r.i.a. kits for, 6D188
 of prolactin in, by enzyme immunoassay, 4D249
 by r.i.a., 2D244, 2D245
 of propafenone in, by h.p.l.c., 3D113
 of propranolol in, 3D99
 of pseudouridine and other nucleosides in, by h.p.l.c., 4D286
 of pyridine-4-amine and pyridine-3,4-diamine in, by h.p.l.c., 3D131
 of pyridostigmine in, by enzymic inhibition - potentiom., 1D79
 of quinidine in, by h.p.l.c., 4D50
 comparison of methods for, 4D54
 of razoxane in, by h.p.l.c., 6D123
 of reducing sugars in, continuous-flow potentiom., with IO_4^- -selective electrode, 6D146
 of all-*trans*-retinoic acid in, by h.p.l.c., 2D273
 of retinol in, by h.p.l.c., 4D293
 of retinol and retinol-binding protein in, effects of sample-collection time and of sample treatment in, 6D266
 of retinol-binding protein in, immunonephelom., 6D246
 of salicylate in, spectroph., 3D85
 with Multistat III micro-centrifugal analyser, 6D80
 of salicylic acid in, by h.p.l.c., 6D79
 of Sch 29482 in, by h.p.l.c., 4D63
 of secretory immunoglobulin A in, by enzyme immunoassay, 2D248
 of silicate in, by t.l.c. of molybdate complex - u.v. spectroph., 2D55
 of Si in, by a.a.s., 6D34
 of Na in, potentiom., with ion-selective electrode, 6D24
 stripping potentiom., 3B6
 of somatomedin in, by r.i.a., 1D188
 of sphingomyelin in, enzymic - spectroph., 6D180
 of Sr in, comparison of atomic-spectrosc. methods for, 1D29
 of sulprostone in, by r.i.a., 4D67
 of tamoxifen and its metabolites in, by h.p.l.c., 3D121
 of Δ^9 -tetrahydrocannabinol in, by r.i.a., collaborative study of, 4D71
 of Δ^9 -tetrahydrocannabinol and its 9-carboxy-11-nor-deriv. in, by g.l.c. - m.s. or r.i.a., 4D78
 of Δ^9 -tetrahydrocannabinol and its 9-substituted metabolites in, by r.i.a., 4D75
 of 4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-ol in, by h.p.l.c. of dansyl deriv., 6D130
 of theophylline in, by fluoro-immunoassay with centrifugal analyser, 6D71
 by h.p.l.c., 4D57
 by h.p.l.c. or by radioactivity-free immunoassay, review, 5D33

Blood serum, determination of theophylline—continued

- by h.p.l.c. or by rate nephelom. inhibition immunoassay, 5D31
- of thiopentone and its metabolite in, by g.c., 4D85
- of thyroid hormones in free form in, by symmetric dialysis, 6A4C
- liquid chrom. - r.i.a., 6A4C
- of thyrotrophin in, by enzyme immunoassay, 1D209
- of thyroxine in, by automated enzyme-inhibition immunoassay, 4D223
- by chemiluminescence immunoassay, 4D222
- by enzyme immunoassay, 3D75
- of thyroxine in bound and free forms in, by r.i.a., 3D218
- of thyroxine in free form in, 6A4C
- by r.i.a., clinical evaluation of, 5D144
- effect of albumin concn. in, 2D224
- effects of albumin concn. and non-thyroidal illness in, 6D219
- evaluation of Amerlex Free T4 kit for, 2D223
- improved dialysis method for, 6D217
- interference by endogenous antibodies in, 3D219
- of tiazofurin in, by t.l.c. - h.p.l.c., 6D125
- of tobramycin in, by fluoro-immunoassay, 6D63
- by h.p.l.c., 4D65
- by h.p.l.c. of trinitrophenyl deriv., 4D66
- of α -tocopherol in, by h.p.l.c., 4D293
- of todrizoline in, sinusoidal a.c. polarogr., 4D113
- of tricyclic antidepressant drugs in, by g.l.c., 5D59
- of triglycerides in, comparison of enzymic methods for, 3D168
- enzymic, with centrifugal analyser, 6D176
- enzymic - spectroph., 3D167
- interference by propane-1,2-diol in enzymic method for, 6D177
- of 3,3',5-tri-iodothyronine in, by enzyme immunoassay, 3D75
- by r.i.a., 2D221
- of tolbuterol in, by g.l.c. of TMS deriv. - m.s., 6D113
- of urea in, by enzyme-linked radial-diffusion method, 2D192
- effects of freeze-drying in Seralyzer method for, 3D197
- flow-through detector for, 1D15
- with use of Ames Seralyzer, 6D13
- with use of reactive strips, 2D25
- of uric acid in, with use of Ames Seralyzer, 6D13
- with use of reactive strips, 2D25
- of ursodeoxycholic acid conjugates in, by r.i.a., 2D190
- of valproic acid in, by g.l.c., 2D75, 3D81
- by g.l.c. without derivatisation, 6D73
- by h.p.l.c. of 4-bromophenacyl ester, 1D66
- liquid chrom. - m.s., 5J51
- of verapamil and norverapamil in, by h.p.l.c., 5D65
- of zearalanol and zearalenone in, by r.i.a., 6D136
- of Zn in, gel chrom. - emission spectrom., 2D41
- extraction of bile acids and their conjugates in, using Bond-Elut cartridges, 1D146
- identn. and detmn. of α -amanitin in, by h.p.l.c., 1D59
- of sulphonamides in, by h.p.l.c. and high-performance t.l.c., 2D95
- phial-to-phial variation of stabilised liquid quality-control, 2D14
- proteins of, see *Proteins, blood-serum*
- sepn. of amino-acid enantiomers in, by g.c. of pentafluoropropionyl deriv. of propyl esters, 6D211
- of benzodiazepine deriv. and their metabolites in, by h.p.l.c., 1D71
- of lactate dehydrogenase isoenzymes in, gel electroph., 2D279
- sepn. and characterisation of anti-oestradiol immunoglobulins in, by h.p.l.c., 1D193
- sepn. and detmn. of bis-(2-ethylhexyl) phthalate and its metabolites in, by h.p.l.c., 4D134
- of lipoproteins in, gel electroph. - densitom., 5D167
- of saturated and unsaturated phospholipids in, by t.l.c. - densitom., 2D156
- sepn. and identn. of barbiturates in, by t.l.c., 4E38
- of creatine kinase isoenzymes in, electroph., 3D295
- Blueberries**, analysis of volatile constituents of, by g.l.c. - m.s., 4F53
- detmn. of carbofuran and its metabolites in, by h.p.l.c., 1G38
- Boldine**, detmn., voltamm., 4E16
- Bombesin**, detmn., 6A4C
- Bone tissue**, detmn. of Cd in, by dithizone extraction - a.a.s., 1D34
- of Cd and Pb in, by a.a.s., 3D41
- of γ -carboxyglutamic acid in extracts or proteins from, by h.p.l.c. of phthalaldehyde deriv., 5D141
- of Au in, anodic-stripping voltamm., 2D44
- sepn. of Pu from, by co-pptn. with bismuth phosphate, 6D30
- Bopindolol**, detmn. in blood plasma, with its metabolite, by h.p.l.c., 5D62
- Borate**, detmn., by g.c. of *t*-butyldimethylsilyl deriv., 3B14
- in presence of other anions, by g.l.c. of *t*-butyldimethylsilyl deriv. - m.s., 2B15
- Borax**, see *Sodium tetraborate*
- Boric acid**, detmn., potentiom., use of sulphur nitride electrode for, 2J166
- in presence of $B_2O_3^{2-}$, 5B64
- of Li in, by a.a.s., with sample decomposition in HF, 4J5
- Boron**, detmn., by XRF, 2J86
- emission spectrom., 2B18
- spectroph., 2B48, 4H50, 5B63
- in aluminium or aluminium alloys, emission spectrom., 5B66
- in biol. materials, emission spectrom., standards for use in, 2D34
- spectrogr., 5D12

Boron, determination—continued

- in doped silica films, by secondary-ion m.s., 3B179
- in fertilisers, emission spectrom., 2G5
- in magnesium, spectrogr., 3B44
- in minerals, ores or rocks, ionom., 2B50
- in nickel alloy, emission spectrom., 2B157
- in periclase, spectrogr., 2B166
- in plants, soil or water, fluorim. or spectrogr., 3G11
- in refractory materials or slag, spectrogr., 3B145
- in silicates, photom., 6B94
- spectrogr., 1B107
- in silicon, by charged-particle activation, 5A4C
- by m.s., 3J104
- by photoluminescence method, 2B88
- in steel, emission spectrom., 6B152
- emission spectrom. or spectrogr., 1B163
- photom., elimination of Nb and Ta interferences in, 1B164
- of ^{10}B in biol. tissues, by n.a.a., 3D39
- of depth distribution of, in silicon, neutron-induced autoradiogr., 6B89
- of distribution of, in alumina - boron oxide layers, by secondary-ion m.s., 3B4
- of isotopic ratios of, by negative thermal-ionisation m.s., 2B49
- ion-exchange extraction of, as fluoride complexes, with octadecyl-tripentylammonium ions, 1B67
- isotopic analysis, emission spectrom., 6B59
- Boron, reagents for**, anthrimide, 1B163
- carminic acid, 3B145
- curcumin, 3B145, 3G11
- 1,1'-dianthrime, 2H10
- 2,6-dihydroxybenzoic acid - malachite green, 4H50
- F⁻ - methylene blue, 1B164, 6B94
- H-resorcinol - thionine, 2B48
- quinalizarin complexan, 5B63
- Boron compounds**, detmn. in air, photom., 2H10
- Bradykinin**, detmn. in blood, by r.i.a., 1D186
- extract purification necessary in, 3D226
- Brain tissue**, analysis of amino-acids and related compounds in, by g.l.c. of pentafluoropropionyl deriv. of hexafluoropropyl esters - m.s., 1D175
- of amino-acids in perfusates of, by h.p.l.c. of phthalaldehyde deriv., with automated pre-column derivatisation, 5D134
- of gangliosides in, by h.p.l.c. of 4-nitrobenzyloxyamine deriv. - t.l.c. - densitom., 3D173
- assay of aromatase in hypothalamus, by h.p.l.c. - radiom., 5D236
- of cyclic-nucleotide phosphodiesterase in preparations of, paper electroph. - radiom., 1D273
- of glutamate decarboxylase in, by ion-exchange t.l.c. - radiom., 2D304
- detection of dopamine and 5-hydroxytryptamine in, by h.p.l.c., 3D205
- detmn. of adenosine in, by h.p.l.c., 1D241
- of adiphenine and its metabolites in, by h.p.l.c., 3D104
- of adrenaline in, by h.p.l.c., 1D158
- of adrenaline, dopamine and noradrenaline in, by t.l.c. of dansyl deriv. of tritiated methyl deriv. - liquid scintillation counting, 1D156
- of As, Cd and Hg in, by n.a.a., 6D22
- of biogenic amines and their metabolites in, liquid chrom., 6A5C
- of Ca in, by a.a.s., 3D31
- of calmodulin in, by r.i.a., 3D249
- of catecholamine deriv. in, by h.p.l.c., 4D190
- of catecholamine deriv., indolamine deriv. and their metabolites in, by h.p.l.c., with thin-layer electrochem. detector, 1D151
- of cerebroside, free fatty acids and sphingomyelin in lipids of, by t.l.c., 3D171
- of chlorinated hydrocarbons and PCB in, by g.c., 1D103
- of cysteine and cysteinesulphonic acids in, by h.p.l.c., 4D221
- of 3,4-dihydroxyphenylacetic acid, dopa, dopamine, 4-hydroxy-3-methoxyphenyl-acetic acid and -alanine, 5-hydroxy-indol-3-yl-acetic acid, -tryptamine and -tryptophan and noradrenaline in, by h.p.l.c., 1D155
- of 3,4-dihydroxyphenylethanediole in free and conjugated forms in, enzymic - radiom., 3D157
- of 2-(dipropylamino)tetralin-5,6- and -6,7-diols in, by h.p.l.c., 6D129
- of dopamine and its acidic metabolites in, by h.p.l.c., 2D201
- of dopamine and its metabolites, 5-hydroxy-tryptamine and -indol-3-ylacetic acid and tryptophan in, by h.p.l.c., 2D200
- of dopamine, 5-hydroxytryptamine and amine metabolites in, by automated h.p.l.c., 5D128
- of dopamine, 5-hydroxytryptamine and noradrenaline in, by h.p.l.c., 5D120
- of elements in, emission spectrom., matrix effects in, 1D20
- of glycerol in, by g.l.c. of TMS deriv., 5D81
- of 5-hydroxyindol-3-ylacetic acid, 4-hydroxy-3-methoxyphenylacetic acid, 5-hydroxytryptamine and 5-hydroxytryptophan in, by h.p.l.c., 2D202
- of 5-hydroxyindol-3-ylacetic acid, 5-hydroxytryptamine and 5-hydroxytryptophan in, by h.p.l.c., 5D130
- of 4-hydroxy-3-methoxyphenylacetic acid in, by g.l.c. of pentafluoropropionyl deriv. - m.s., 1D124

Brain tissue, determination—continued

- of 3- and 4-hydroxyphenylacetic acids in single caudate nuclei, by g.l.c. of pentafluoropropionyl - trifluoroethyl ester deriv. - m.s., 6D163
- of Pb and Zn in hippocampus, by isotope dilution - m.s., 1D30
- of leucine-enkephalin in, by h.p.l.c. - field-desorption m.s., 1D185
- of loxapine in, by g.l.c. - m.s., 1D74
- of myelin basic protein in, by r.i.a., 3D257
- of 5-oxopyrrolidine-2-carboxylic acid in, by h.p.l.c. of 4-nitrophenacyl ester, 5D123
- of pterins in, liquid chrom., 4D292
- of tacrine in, by h.p.l.c., 6D97
- of 1-erythro-tetrahydrobiopterin in, by h.p.l.c., 6D264
- of tryptophan and its metabolites in, by h.p.l.c., 4D217
- of tyrosine in, by h.p.l.c., 6D212
- of vasopressin in, by r.i.a., 3D227
- of Zn in, by isotope dilution - m.s., 6D28
- effect of temp. on stability of biogenic amines in, 4D188
- sepn. and detmn. of catecholamine deriv. and indolamine deriv. in, by h.p.l.c., 1D152
- of dopamine, indolamine deriv. and noradrenaline in, by h.p.l.c., 2D199
- of gangliosides in, by t.l.c. - densitom., 3D174, 3D175
- Bran**, detmn. of phytic acid in rice or wheat, by h.p.l.c., 1F16
- Brandy**, characterisation, by head-space g.l.c., 1F53
- Brass**, detmn. of Cu in, complexom., 5B35
- gravim., 5B34
- of Cu content and plating thickness of, on steel wire or cord, by XRF, 5B40
- of elements in, by XRF, 6B38
- of Fe in, spectroph., removal of Cu in, 1B36
- of Pb in, by isotope dilution - m.s., 5B104
- of Ni in, spectroph., 2B32
- identn. of α -, as gilding material used in illuminated manuscripts, 3B1
- Bread**, detmn. of D-amino-acids in, by g.l.c. of N-pentafluoropropionyl deriv. of isopropyl esters, 1F7
- of K and Na in, potentiom., with ion-selective electrodes, 5F31
- of 1,2,3,4-tetrahydro-6-hydroxy-1-methyl- β -carboline in, by g.c. of pentafluoropropionyl deriv. - m.s., 3F49
- sepn. of mycotoxins in *Alternaria*-contaminated, by t.l.c., 2F19
- sepn. and detmn. of mycotoxins in mouldy, by t.l.c., 2F18
- Breath**, analysis, by atmospheric-pressure-ionisation m.s., 4D9
- detmn. of $^{13}\text{CO}_2$ and H_2 in, by m.s., problems of contamination in, 4D21
- of $^{14}\text{CO}_2$ in, by liquid scintillation counting, 6D32
- of ethanol in, 2A1C
- of H in, collection device for, 6D23
- sensitivity and specificity of test for, 3D23
- storage of samples in plastic syringes for, 3D22
- of Δ^9 -tetrahydrocannabinol and its 9-substituted metabolites in, by r.i.a., 4D75
- Brethylum tosylate**, detmn., spectroph., 1E1
- Brewing materials**, analysis, applications of g.c. in, review, 6F58
- applications of h.p.l.c. in, review, 6F57
- applications of instrumental techniques in, review, 6F56
- review, 1F43
- detmn. of carbohydrates, ethanol and glycerol in, by h.p.l.c., 5F61
- Brine**, detmn. of acids in sauerkraut, by isotachopheresis, 2F36
- of elements in, by a.a.s. or a.e.s., 4B152
- Bromamine N**, synthesis and analytical applications of, 4A16
- Bromate**, detmn. in presence of ClO_3^- and ClO_2^- , differential pulse polarogr., 4B151
- sepn. from other anions, high-performance ion chrom., 5B3
- Bromazepam**, sepn. from related compounds, by h.p.l.c., 6E41
- Bromhexine camsylate**, detmn. in cough syrup, spectroph., 4E82
- Bromide**, detmn., ion chrom., 1B19
- measuring 'stick' for, 5B137
- potentiom., with ion-selective electrode, 6J169
- stripping voltamm., electrolytic pre-concn. processes in, 1B146
- in aq. NaOH medium, ion chrom., 5B2
- in $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$ melts, by coulom. thermom. titration, 1B147
- in cetrimide soln., potentiom., with ion-selective electrode, 2E58
- in potassium nitrate, potentiom., with ion-selective electrode, with pre-concn. by directional crystallisation, 1B21
- in presence of Cl^- and I^- , potentiom., with S^{2-} -selective electrode, 1C15
- of I^- , titrim., 4B117
- of other anions, ion chrom., 1H55
- on dynamically coated columns, 6B20
- without suppression, 6B19
- ion chrom. - u.v. photom., 5B22
- ion-interaction chrom., 4B17
- of other halides, potentiom., calculation of equiv. pt. in, 4A17
- in water, automated ion chrom., 5H83
- by pyrolysis - g.l.c., as bromocyclohexanol, 6H48
- sepn. from other anions, high-performance ion chrom., 5B3
- Bromine**, detmn., by XRF, 6B18
- in air, by n.a.a., comparison of sampling media for, 6H18
- in biol. materials, by XRF, 1F4
- in blood, by XRF, 2D60

Bromine, determination—continued

- in blood serum, by n.a.a., 4D42
- by XRF, 5J99
- in coal or oil shale, by O-bomb combustion - ion chrom., 2B167
- in fats or fatty oils, by n.a.a., 4F68
- in milk powder, by PIXE, 6F34
- in minerals, ores or rocks, by isotope dilution - m.s. or electrochem., 6B142
- in org. compounds, see under *Organic elementary analysis*
- in single erythrocytes, by PIXE, 3D19
- in soil or vegetables, by g.l.c., as 2-bromoethanol, 5F50
- in water, by PIXE, 1H46
- of Br-to-Pb ratio in air-borne dust, review, 1H22
- sepn. of ^{77}Br from proton-bombarded selenium, 3B118
- Bromine compounds**, characterisation of org., by g.c. - m.s., 4C10
- detmn. of org., in blood serum or human milk, by n.a.a., 3D46
- p-Bromoarsenazo**, purification and detmn. of active component of, by t.l.c. and spectroph., 3A10
- Bromophos**, detmn. in fruit or vegetables, by t.l.c., 4G21
- Bromvalone**, detmn. in Sereiskii mixture powder, titrim., 6E11
- Bronze**, detmn. of Sb and As in, by thioacetamide pptn., 2B31
- of Cu in, complexom., 5B35
- of Fe in, spectroph., removal of Cu in, 1B36
- of Fe in tin, spectroph., 1B42
- of Ni in, spectroph., 2B32
- of Zn in, spectroph., 3B51
- dissolution of heat-resisting Cr-containing, 4B43
- Brotizolam**, detmn. in blood plasma, with its metabolite, by g.c. of TMS deriv., 5D43
- Brucine**, detmn., by flow-injection - spectroph. method, 2B128
- Brushite**, i.r. spectrum of, 1D22
- Buffer solutions**, calculation of composition of samples of known ionic strength, 5A29
- certification of standard, 5A19
- Building materials**, detmn. of elements in, by n.a.a., 5B194
- Buphenine hydrochloride**, detmn. in pharmaceutical preparations, spectroph., 3E57, 4E60
- Bupivacaine**, detmn. in blood plasma, by g.l.c., 4D105
- Bupropion**, detmn. in blood plasma, comparison of r.i.a. methods for, 3D96
- Buta-1,3-diene**, adsorption of, on cross-linked polystyrene, 2C14
- , hexachloro-, detmn. in fish, sediments or water, by g.l.c., 1H75
- Butane**, adsorption of, on cross-linked polystyrene, 2C14
- Butane-1,4-diol**, 2,3-bis-(3-hydroxybenzyl)-, see *Enterodiol*
- , 1,4-diphenyl-1,4-di-(2,5-xylyl)-, detmn., spectroph., 6E3
- Butanediols**, analysis of binary mixtures of, with butanediols or with each other, by kinetic - amperom. method, 1C22
- Butan-1-ol**, detmn. in air, by g.l.c., 5H42
- in gasoline, by g.c., 2C66
- in gasoline blends, by g.c., 1C78
- , 1-(4-fluorophenyl)-4-(4-methylpiperidino)-, detmn. in blood plasma, by g.l.c. - m.s., 6D90
- , α -(4-fluorophenyl)-[4-(2-pyridyl)piperazin-1-yl]-, detection and detmn. in pork, by h.p.l.c., 3F22
- Butan-2-ol**, detmn. in air, with Organic Vapour Monitor, 1C4
- in tetraethyl-lead, by g.l.c., 2C72
- Butan-1-one**, 1-cyclohexyl-4-[ethyl-2-(4-methoxyphenyl)-1-methylethyl-amino]-, see *Secoverine*
- Butan-2-one**, 4-(4-hydroxyphenyl)-, detmn. in insect-bait concentrates, by g.l.c., 5G36
- , 4-(methylnitrosamino)-1-(3-pyridyl)-, detmn. in cigarette smoke or tobacco, by g.l.c. - thermal energy analysis, 3D138
- Butenediols**, analysis of binary mixtures of, with butanediols or with each other, by kinetic - amperom. method, 1C22
- But-3-en-2-ol**, 2-methyl-, detmn. in hops or hop preparations, by g.l.c., 3E32
- Buthiazide**, detmn. in presence of related compounds, by t.l.c. - spectroph., 2E63
- Butobarbitone**, detection in post-mortem blood, by g.l.c., 1D62
- detmn. in presence of cyclobarbitone and quinalbarbitone, by h.p.l.c., 5J47
- Butocarboxim**, detection, by g.c. - chemical-ionisation m.s., 2G16
- Butonate**, detmn. in air or soil, with its metabolites, chrom., 4H30
- Butorphanol**, detection in urine, by t.l.c. - tandem m.s., 4D51
- Butralin**, sepn. from related herbicides, by g.c., 1G29
- Butter**, detection of adulteration of, by g.l.c. analysis of constituent fatty acids, 1F30
- detmn. of *trans*-fatty acids in, comparison of methods for, 4F51
- of PCB in, by chemical-ionisation m.s., 2H88
- Buturon**, detection in water, fluorim., 3H82
- t-Butyl alcohol**, detmn. in gasoline, by g.c., 2C66
- in gasoline blends, by g.c., 1C78
- Butylamine**, detmn. in presence of other primary amines, by h.p.l.c. of phthalaldehyde deriv., 5C21
- s-Butylamine**, detmn., with modified thermal energy analyser, 1C34
- Butylated hydroxyanisole**, see *Phenol, t-butyl-4-methoxy-*
- Butylated hydroxytoluene**, see *p-Cresol, 2,6-di-t-butyl-*
- Butyrate**, detmn., ion-exclusion chrom., 1E79
- , 2-hydroxy-, sepn. from other anions, by isotachopheresis, 3J45
- , 3-hydroxy-, detmn. in blood or blood plasma, by g.l.c., 2D140

- Butyric acid**, detmn. in lactic acid-fermented vegetables, by h.p.l.c., 5F51
 —, **4-amino-**, detmn. in brain tissue, by g.l.c. of pentafluoropropionyl deriv. of hexafluoropropyl ester - m.s., 1D175
 in presence of its analogues, by h.p.l.c., 4D215
 —, **4-amino-3-hydroxy-**, detmn. in presence of related compounds, by h.p.l.c., 4D215
 —, **2,4-diamino-**, detmn. in presence of related compounds, by h.p.l.c., 4D215
 —, **3-hydroxy-**, sepn. of enantiomers of, by g.c., derivatisation reagents for, 4C4
 —, **3-hydroxy-**, detmn. in blood plasma, by g.l.c., 1D121
 sepn. of enantiomers of, by g.c., derivatisation reagents for, 4C4
 —, **3-methyl-, 3,7-dimethylocta-2,6-dien-1-yl ester**, detmn. in plants, soil or water, by g.l.c., 6G39
 —, **3-methyl-2-(methylanino)-**, sepn. of enantiomers of, by g.c., derivatisation reagents for, 4C4
 —, **2-phenyl-**, sepn. of enantiomers of, by g.c., derivatisation reagents for, 4C4
 —, **γ -vinyl- γ -amino-**, see *Hex-5-enoic acid*, **4-amino-**
Butyric acid derivatives, halogeno-, sepn. of alkyl esters of, from halogenopropionates and from each other, by g.c., 6C21
 γ -Butyrolactone, detmn. of maleic acid and succinic acid in, polarogr., 6C22
 identn. as decomposition product of 1-methylpyrrolidinone, by g.c. - m.s., 3C66
 —, **2,3-bis-(3-hydroxybenzyl)-**, see *Enterolactone*
Butyrophene, 2',4',5'-trihydroxy-, detmn. in lard or oil, collaborative study of h.p.l.c. method for, 5F75
Butyrophene derivatives, detmn., polarogr., review, 5E30

C

- C₃ complement**, detmn., laser nephelom., 4D240
C₃ complement, detmn., by chemiluminescence immunoassay, 3D277
 CN, see *Acetophenone*, **α -chloro-**
 CS, see *Malononitrile*, **2-chlorobenzylidene-**
 CTX, see *Ciguatoxin*
 CV-1808, see *Purine*, **6-amino-2-anilino-9- β -D-ribofuranosyl-9H-**
Cabbage, detmn. of carbofuran and its metabolites in, by h.p.l.c., 1G38
 of dazomet in, by h.p.l.c., 3G39
 of elements in, by XRF, 6G1
Cacao beans, detmn. of As in, by a.a.s., 5F23
Cadaverine, detmn. in blood-plasma hydrolysate, by h.p.l.c., 3D198
 in presence of other bacterial amines, by g.c., 6D195
 in urine, by t.l.c. of dansyl deriv. - fluorim., 6D196
Cadmium, co-floation of, on metal hydroxides, 4B20
 concn., by Donnan dialysis, 1B25
 by ion flotation, 4B14
 from sea-water, on quinolin-8-ol-bonded polymer supports, 5H49
 from water, by chelating ion exchange, 1H44
 by co-pptn. - flotation, 4H38
 on cellulose, 5H51
 detection, by forward scattering in transverse magnetic field, 2J107
 colour reaction for, 2B12
 reaction for, 5B21
 in water, automated, review, 6H41
 detmn., amperom., 1B65
 anodic-stripping neo-polarogr., 1B60
 anodic-stripping voltamm., 1H53
 comparison of methods for, 2B10
 effects of surfactants in, 2B13
 by a.a.s., 2B43, 5J111
 atomisers for, 2J103
 background correction in, 5J119
 comparison of methods for, 3B11
 with addition of graphite powder to sample, 6B147
 with pre-concn. as clioquinol complex on micro-cryst. naphthalene, 1B57
 by a.f.s., 5B55
 by flow-injection - amperom. method, 5B14
 by n.a.a., with pre-concn. by co-pptn., 1B10
 by XRF, gelatin-film calibration standard for, 1J98
 differential pulse anodic-stripping voltamm., with flow-injection system, 2B99
 dual-wavelength photom., 1B24
 emission spectrom., effect of ethanol in, 6B13
 reduction of interferences in, 3J84
 reduction of MgCl₂ interference in, 4J85
 photom., 4B59
 potentiom., ion-selective electrode for, 5B57
 spectroph., 1B58, 1B59, 2B42, 2B44, 4A9, 4A10, 5B54, 6B54
 effects of anions in, 2B41
 stripping chronopotentiom., 3J152, 4B56
 stripping potentiom., 3J151
 automated, review, 4J141
 interference by Cu in, 3B53
- Cadmium, determination—continued**
 in air-borne dust, by a.a.s., digestion methods for, 4H8
 in barley, by a.a.s., sample preparation for, 6G2
 in beer, by a.a.s., 6F62
 in beverages, by a.a.s., 4F56
 in biol. materials, by a.f.s., 5J133
 differential pulse anodic-stripping voltamm., 4D23
 emission spectrom., 2D33
 in biol. tissues, by n.a.a., 6D22
 emission spectrom., 2D35
 comparison of sample-treatment procedures for, 6D15
 in blood, by a.a.s., effect of container material, storage time and temp. in, 3D35
 by Zeeman a.a.s., 1D32
 automated, 6D18
 in blood serum, emission spectrom., reduction of interference in, 5J131
 in bone tissue, by a.a.s., 3D41
 in dithizone extraction - a.a.s., 1D34
 in drugs, by a.a.s., 4E5
 in estuarine water, by a.a.s., 1H50
 in fatty acid still-bottom residues, by a.e.s., 2C34
 in feeding-stuffs or foods of plant origin, automated spectroph., 5F4
 in fertilisers, emission spectrom., 2G5
 in fish tissues, anodic-stripping voltamm., 5F40
 in fly ash reference material, 5A18
 in foods, by a.a.s., 4F5, 5F3
 polarogr., 5F2
 in fruit, spectroph., 3F36
 in halide matrices, by a.a.s., 5B20
 in high-salinity water, by a.a.s. and a.e.s., 6H67
 in leachate from ceramics, by a.a.s., 5B182
 in liquid samples, spectrogr., 2J108
 in liver tissue, by a.a.s., 3D18
 by Zeeman a.a.s., 1D33
 in magnesium, spectrogr., 3B44
 in marine samples, review, 4H39
 in mercury, voltamm., 5B62
 in nickel alloys, by a.a.s., 5B157
 in nickel(II) oxide, polarogr., twin-cell deriv. and second-deriv. techniques for, 1B177
 in pharmaceutical raw materials and active compounds, voltamm., 3E1
 in pigments, gravim., 2A11
 in plants, by a.a.s., 6D17
 certified reference materials for, 6D14
 in presence of Co, Cu, Mn and Ni, ion chrom., with pre-concn. by Donnan dialysis, 6J44
 of Cu, voltamm., 2J183
 of other elements, by h.p.l.c. - spectroph., 5B13
 by n.a.a., 5B8
 gravim., 6B16
 of Zn, by a.a.s., extraction method for, 3B52
 by t.l.c. - radiom., 5B12
 in sea-water, anodic-stripping voltamm., 4H45
 preparation of sample containers for, 2H42
 by a.a.s., 2H52, 5H56
 extraction method for, 2H45
 interferences in, 1H51
 by isotope dilution - m.s., 6H39
 by n.a.a. with pre-concn. by column electrolysis, 5H55
 in sediments, acid-extraction - a.a.s. method unsuitable for, 4H41
 in sediments or sewage sludge, by a.a.s., interferences in, 3H44
 in sewage sludge, by a.a.s., 1H86
 sample pre-treatment for, 4H89
 by XRF, 3H93
 in silicates, by lithium borate fusion - a.a.s., 4B10
 in sodium chloride, anodic-stripping voltamm., 4H45
 in soil, by atom-trapping a.a.s., 2G3, 3J74
 by sorption - XRF, 3G8
 spectroph., 3F36
 in tin, by a.a.s., 5B102
 in triuranium octaoxide, emission spectrom., 5B87
 in uranium, emission spectrom., 1B95
 in urine, by a.a.s., 4D30
 by Zeeman a.a.s., 3D36
 in vegetables, spectroph., 3F36
 in waste water, emission spectrom., 1H88
 inverse voltamm., 6H66
 in water, anodic-stripping voltamm., 4H45
 by a.a.s., after flotation sepn., 4H49, 4H56
 using stabilised-temp. platform furnace, 1H47
 by a.e.s., 1H48
 by automated flow-injection - potentiom. stripping method, 2H48
 by electro-pptn. - a.a.s., 3H49
 emission spectrom., using computer-controlled monochromator, 2H47
 in presence of humic acids, anodic-stripping voltamm., 1H53
 spectroph., 1H60
 in zinc, spectroph., 4B57

Cadmium, determination—*continued*

- in zinc, zinc chloride or zinc oxide, anodic-stripping voltamm., 4B58
- in zinc ores, by thermal-neutron absorption, 6B53
- of distribution of, in cadmium mercury telluride, by XRF, 5B190
- of impurities in, by radioactivation analysis, 5B56
- of speciation of, by a.a.s., 5J117
- extraction-chrom. study of, 6B21
- ion-exchange study of, 6B14
- sepn. from Cu, with xanthated Sephadex, 1B22
- from Cu, Fe or Zr, liquid chrom., 2B16
- from Cu and Ag, by t.l.c., 6B3
- from Ga, ion-exchange chrom., 2B56
- from Mn or Zn, by ion exchange, 3J42
- from other elements, by t.l.c., 1B23, 3B13
- ion chrom., 1B16
- ion-exchange chrom., 5B16
- from Sn, by ion flotation, 4B14
- from U, ion-exchange chrom., 3B79
- from Zn, by solvent extraction, 3B54
- from Zn and other elements, by solvent extraction, 4B55
- solvent extraction of, as salicylate, with mesityl oxide, 6B51
- with aq. systems from organometallic - halide extracts, 1B14
- with decanoic acid in CHCl_3 , 5B23
- with dantipyrylthiourea from ammoniacal soln., 5B58
- with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - trioctylphosphine oxide, 1H45
- with quinoline-8-carbodithioic acid, 3A14
- with sulphonamide chelating agents, 5B11
- with tetrachlorodithionates, 1B17
- with trioctylphosphine oxide from SCN^- -containing soln., 1B61
- with xanthates in CHCl_3 , 2B44

Cadmium, reagents for, BrPADAP, 1B58

- 2,2'-bipyridyl - Chrome Azurol S - hexadecylpyridinium bromide, 6B54
- 1,5-bis(di-2-pyridylmethylene)thiocarbonyldiazide, 4A10
- 1-(6-bromobenzothiazol-2-ylazo)-2-naphthol, 1H60
- 2-(6-bromobenzothiazol-2-ylazo)-5-dimethylaminophenol and its analogue, 4A9
- CIPADAP, 1B58
- chromopyrazol II, 1B59
- diaminomaleimide dioxime, 2A11
- dithizone, 3F36, 4B57
- 2-[5-(1-methyl-2-piperidyl)-2-pyridylazo]-*p*-cresol, 4B59
- polysorbate 80 - Titan yellow, 5B54
- K_2CS_3 , 6B16
- 1-(2-pyridylazo)-2-naphthol, 2B41
- pyruvaldehyde 2-benzothiazolylhydrazone, 2B42
- sulpharsazen, 5F4
- thioacetamide, 5B21
- thiophene-2-carboxaldehyde 2-quinolylhydrazone, 2B12

Cadmium carbonate, detmn. of Cu in, by a.a.s., 3B30**Cadmium complexes**, with amino-acids and related compounds, ^{113}Cd and ^{137}Cs n.m.r. studies of, 5D133

- with 4-benzoyl-3-methyl-1-phenylpyrazoline-5-thione, 1A9
- Cadmium mercury telluride**, analysis of epitaxial layers of, by secondary-ion m.s., 2B179

- characterisation of native oxides on, 1A1C
- detmn. of element distribution in, by XRF, 5B190
- secondary-ion m.s. study of, 6A7C

Cadmium selenide, detmn. of Ga in films of, fluorim., 4B64**Cadmium selenide telluride**, detmn. of composition of, by calculation after titrimetry, 3B177

- of Ag in, by kinetic - spectroph. method, 3B33

Cadmium sulphide, comparison of Auger-electron and X-ray photoelectron spectrom. studies of, 4B13

- detmn. of Ag in, by kinetic - spectroph. method, 3B33

Cadmium telluride, detmn. of impurities in, by radioactivation analysis, 5B56**Cadmium zinc telluride**, detmn. of composition of, by calculation after titrimetry, 3B177**Cadralazine**, t.l.c. - densitom. study of stability of, 5A2C**Caesium**, detmn., by n.a.a., 1B9

- in hair, by photon activation, 1D19
- of ^{137}Cs in grasses or legumes, sample preparation for, 1G2
- in soil, comparison of methods for, 4H2
- purification of ^{137}Cs , ion-exchange chrom., 5J67
- sepn. from Ce and Co, ion-exchange chrom., 5J67
- from other alkali and alkaline-earth metals, by h.p.l.c., 4B29
- from other elements, ion-exchange chrom., 3B26, 6B30
- from K, by t.l.c., 1B6
- solvent extraction of, as picrate, with crown ethers having co-ordinating side-chains, 4A7
- with asymmetrical crown ethers, 3A15
- with dibenzo-18-crown-6 and sulphonphthalein dyes, 3B25
- with poly- and bis-(benzo-12-crown-4)s, 1B31

Caesium iodide, detmn. of F^- in, potentiom., with ion-selective electrode, with pre-concn. by directional crystallisation, 1B21**Caffeine**, detection in urine, by t.l.c. - tandem m.s., 4D51

- by triple-quadrupole m.s., 3D11
- detmn., by g.c., concn.-dependent behaviour in, 2E3
- in appetite-suppressant formulations, by h.p.l.c., 5E37

Caffeine, determination—*continued*

- in beverages, by h.p.l.c., 6F52
- in beverages, decaffeinated coffee or tea, by h.p.l.c., 5F60
- in biol. fluids, with its metabolites, by h.p.l.c., 5D29
- in blood plasma or urine, by g.l.c. of propyl deriv., 6D59
- in coffee and other beverages, by h.p.l.c., 3F43
- in pharmaceutical preparations, by automated g.c. - m.s., 2G12
- by h.p.l.c., 5E10
- u.v. spectroph., 4E39
- identn. in analgesic preparations, by t.l.c., 3E42
- **sodium benzoate**, detmn. in Sereiskii mixture powder, titrim., 6E11
- Calcidiol**, detmn. in blood serum, radiom., 3D282
- in human milk, by h.p.l.c. - competitive protein-binding assay, 5D192
- , **24-hydroxy-**, detmn. in blood serum, by competitive protein binding, 3D283
- Calciferol**, see *Ergocalciferol*
- Calcitonin**, detmn. in blood serum, by r.i.a., 2D232
- Calcitriol**, detmn., by r.i.a., 2D275
- Calcium**, concn., by electro-deposition on carbon electrode, 3B48
- from water, by chelating ion exchange, 1H44
- detection, reaction for, 5B21
- detmn., acceptable limits for precision and accuracy in, 3D3
- by a.a.s., effect of Cr in, 3B43
- by flow-injection - spectroph. method, 1B53
- by stopped-flow injection - spectroph. method, 1B51
- complexom., 5B51
- elimination of effect of acids in flame-spectroph. methods for, 3B45, 3B46
- evaluation of Hitachi 705 analyser for, 4D10, 4D11
- ISFET sensor for, 1J189
- laser-enhanced-ionisation spectrom., 3J86
- potentiom., 1B52
- ion-selective electrodes for, 6J139
- reduction of surfactant interference in ion-selective method for, 3J135
- with Cu^{2+} -selective electrode, 3B10
- with ion-selective electrode, antilogarithmic unit for use in, 6J140
- with Cobas-Bio centrifugal analyser, 2D20
- in air-borne dust, with laser micro-probe mass analyser, 3H12
- in alkali metals or their salts, by a.a.s., 4B30
- in aluminium sulphate, by a.a.s., 5B69
- in barley seeds, by a.a.s., 1G3
- in bauxite, by XRF, 3B59
- in beer, collaborative study of titrim. method for, 2F52
- in biol. materials, by n.a.a. *in vivo*, interferences in, 5D13
- emission spectrom., matrix effects in, 1D20
- standards for use in, 2D34
- spectroph., 3D32
- in biol. tissues, emission spectrom., 2D35
- in blood serum, by flow-injection - a.a.s. method, 3D29
- comparison of methods for, using pattern recognition, 2D21
- inter-laboratory study of methods for, 2D46
- potentiom., with ion-selective electrode, 6D27
- spectroph., 1D28
- in blood-serum ultra-filtrate prepared with Amicon MPS-1 system, by a.a.s., 3D28
- in brain tissue, by a.a.s., 3D31
- in brine, by a.e.s., 4B152
- in coal, by XRF and X-ray scattering, 6B185
- in feeding-stuffs, by flow-injection - spectroph. method, 5G17
- in fertilisers, emission spectrom., 2G5
- in hair, by photon activation, 1D19
- in hydrocolloids, potentiom., 4B52
- in iron alloys, by XRF, 4B187
- in latices, complexom., 4C84
- in manganese silicates, by a.a.s., 6B96
- in milk powder, by PIXE, 6F34
- in minerals, ores or rocks, by XRF, 5B172
- comparison of methods for, 1B191
- in nickel alloys, by a.a.s., 5B157
- in pancreatic juice, with Corning 940 titrator, 4D27
- in periclase, spectrogr., 2B166
- in petroleum or petroleum products, by a.a.s., after emulsion formation, 1C83
- in pharmaceutical capsules, emission spectrom., 1E14
- in plants, by XRF, 1G19
- use of standard samples for control in, 1G18
- in presence of Mg, potentiom., with ion-selective electrode, 4A18
- in sediments, by n.a.a., 3H45
- in serpentine, with electron micro-probe, 5B176
- in silicates, by XRF, 2B91
- in soil, emission spectrom., 2G2
- in urine, in presence of ioxaglate, 2D45
- in water, by PIXE, 1H46
- spectroph., 5H58
- in wine, flame spectrom., 4F59
- in Zircaloy, emission spectrom., 4B114
- of Ca^{2+} , with Nova 2 analyser, imprecision, bias and protein interference in, 3D33

- Calcium**, determination of Ca^{2+} —*continued*
 in blood serum, by dialysis - ion chrom., 2J43
 with Nova 2 analyser, 2D47
 in human milk, potentiom., with ion-selective electrode, 6D26
 of different chemical forms of, in saliva, gel chrom., 3D30
 of exchangeable, in sewage sludge, soil or related materials, by a.a.s., 4G7
 in soil, spectroph., 5G12
 of metallic, in CaF_2 -containing slag, by reaction with H_2O - g.c., 3B144
 on textile surfaces after washing, by scintillation technique, 4C76
 effect of anions in ion-exchange studies of, 6B50
 sepn. from alkali and other alkaline-earth metals, by h.p.l.c., 4B29
 from Cu or Hg, with xanthated Sephadex, 1B22
 from lanthanoids, paper chrom., 1B82
 from Mg, by ion exchange, 3J42
 by pptn. - ion-exchange technique, 3B47
 from other elements, ion chrom., 1B16
 solvent extraction of, with dibenzo-18-crown-6 and sulphophthalein dyes, 3B25
 with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - trioctylphosphine oxide, 1H45
- Calcium**, reagents for, alizarin - B, 3D32
 beryllon II, 5H58
 chlorophosphonazo-mA, 5G12
 o-cresolphthalein, 1D28, 5G17
 oxalic acid Na salt, 5B21
- Calcium complexes**, with ATP, sepn. from ATP, by h.p.l.c., 5D187
 with 1,5-bis-(5-chloro-2-hydroxyphenyl)-3-cyanofomazan, 6A20
- Calcium nitrate**, detmn. of Cl^- in, spectroph., 6B140
- Calcium phosphate**, detmn. in urinary calculi, inter-laboratory study of, 1D21
- Calcium sulphate**, analysis, and analysis of materials derived therefrom, review, 1B209
- Californium**, system for sepn. of rare-earth fission products of ^{252}Cf , 1J183
- Calmodulin**, detmn. in brain tissue, by r.i.a., 3D249
 purification and detmn. in mammary tissue, enzymic, 3D250
- Calorimetry, differential scanning**, detmn. of purity of org. compounds by, 1C38
- Camelina sativa**, analysis of fixed oil of, by t.l.c. - g.l.c., 6E33
- Campesterol**, detmn. in faeces, with its metabolites, by g.l.c., 1D134
- Camphane derivatives**, g.l.c. study of, 5C49
- Campechlor**, detmn. in biol. tissues, by g.l.c. or g.l.c. - m.s., 3D143
 sepn. and identn. of chlorinated terpenes in, by g.l.c. - m.s. (or ^1H n.m.r.), 5G34
- Camphor**, detmn. in camphorated parachlorophenol, by n.m.r., 6E9
 of (+), by g.c. - circular dichroism spectrom., 6J68
- Cannabinoids**, detmn. of metabolites of, in urine, by enzyme immunoassay, collaborative study of, 4D71
- Cannabinol**, 9-carboxy- Δ^9 -tetrahydro-, detmn. in blood or blood plasma, by g.c. - chemical-ionisation m.s., 4D76
- , 11-hydroxy- Δ^9 -tetrahydro-, detmn. in blood or blood plasma, by g.c. - chemical-ionisation m.s., 4D76
 in blood plasma or urine, by g.c. - chemical-ionisation m.s., 5D42
- , 9-carboxy-11-nor- Δ^9 -tetrahydro-, detmn., by r.i.a., 4D70
 in blood plasma or urine, by g.c. - chemical-ionisation m.s., 5D42
- , Δ^9 -tetrahydro-, detmn., by r.i.a., 4D70
 with its 9-substituted metabolites, by r.i.a., 4D75
 in blood or blood plasma, by g.c. - chemical-ionisation m.s., 4D76
 by r.i.a., 4D77
 in blood or blood serum, by g.l.c. - m.s. or r.i.a., 4D78
 in blood plasma, by h.p.l.c., 4D73
 in blood plasma or urine, with its metabolites, by g.c. - chemical-ionisation m.s., 5D42
 by h.p.l.c. - r.i.a., 4D74
 in blood serum, by r.i.a., collaborative study of, 4D71
 in urine, with its metabolites, by enzyme immunoassay, 4D72
- Cannabis**, analysis of constituents of, by g.c. or h.p.l.c., 3E39
 detmn. of cannabinoid distribution in Moroccan, by h.p.l.c., 2E41
- Cantharidin**, detmn., by g.l.c. of methyl deriv., 4E36
- Cantharidinimide**, N-hydroxy-, detmn., by g.l.c. of methyl deriv., 4E36
- Capacitor oils**, detmn. of PCB in, comparison of g.c. methods for, 3C84
- Capsaicin**, detmn. in chemical protection sprays, by g.c. - m.s., 1C127
- Capsicums**, analysis of volatile constituents of, by g.c. and g.c. - m.s., 4F54
- Caprolactam**, detmn. in air, by t.l.c., 5H40
- Captopril**, detection, fluorogenic reagent for, 2C10
 detmn., potentiom., titrim., 4E61
 sepn. from other thiols, gel electro h., 5D4
- Carambola**, sepn. and detmn. of fructose, glucose and sucrose in, by h.p.l.c., 1F33
- Caramel**, detmn. of sugars in, by h.p.l.c., 4F8
- Carane derivatives**, g.l.c. study of, 5C49
- Carbachol**, detmn., spectroph., 1E1
- Carbadox**, detmn. in feeding-stuffs, by h.p.l.c., 5G23
- Carbamate kinase**, see under *Enzymes, specific*
- Carbamazepine**, detection in blood serum, solid-phase reagent strips for, 6D49
 detmn., by EMIT assay, logit - log. calibration curves in, 1D52
- Carbamazepine**, determination—*continued*
 in blood plasma, by g.l.c. or h.p.l.c., 4D87
 by h.p.l.c., 5D26, 5D46
 in blood serum, by enzyme immunoassay with Abbott-VP Analyser, 2D76
 by fluoro-immunoassay, 4D88
 by fluoro-immunoassay with centrifugal analyser, 6D71
 by h.p.l.c., 2D75, 2D77, 3D77
 interference in immunoassay methods for, 6D72
 in pharmaceutical preparations, polarogr., 2E43
 —, 10,11-epoxide, detmn. in blood plasma, by h.p.l.c., 5D46
- Carbamic acid, diethyldithio-, sodium salt**, detmn., spectroph., 5C7
- , dithio-, derivatives, detmn., amperom., 5G32
- , methyl-, 2-s-butylphenyl ester, sepn. from other carbamates, by t.l.c., 1G36
- Carbamoyl chloride, dimethyl-, detmn. in air**, by g.c., 3H34
- Carbamoyl phosphate**, detmn. in tissue extracts, enzymic - fluorim., 3D200
- Carbanilates, dimethylammonioethyl alkoxy-, chlorides**, t.l.c. study of, 6E44
- Carbapenem antibiotics**, sepn. and detmn., by t.l.c. - densitom., 2E22
- Carbaryl**, detection and identn. in marionberries, by g.c. - chemical-ionisation m.s., 2G17
 detmn., fluorim., effect of basicity of medium in, 3G43
 photom., 4G17
 in fruit or vegetables, by g.c., 6G31
 by t.l.c., 4G21
 in rice, by g.l.c., 6G37
 estimation of detection limit of, after t.l.c., 3A4
 sepn. from other carbamates, by t.l.c., 1G36
 of urinary metabolites of, by h.p.l.c., 5D85
- Carbazole**, detmn. in anthracene cake, by g.l.c., 3C62
- , N-isopropyl-, detection of N-propylcarbazole in, by g.l.c., 6C45
- , N-propyl-, detection in N-isopropylcarbazole, by g.l.c., 6C45
- Carbazole derivatives**, identn. and detmn. in crude oil, by g.c. - g.c. - m.s., 1C70
- Carbendazim**, detmn., polarogr., 5G31
 in fruit, by g.l.c., by t.l.c., fluorim. or spectroph., 5G30
- Carbendazol**, see *Carbendazim*
- Carbetapentane citrate**, detmn. in pharmaceutical preparations, titrim., 3E75
- Carbidopa**, detmn. of enantiomeric purity of, by h.p.l.c., 3E17
- Carbodi-imides**, sepn. from urea deriv. and from each other, by h.p.l.c., 5C40
- Carbofuran**, detmn. in blood or urine, with its metabolites, by t.l.c., 1D112
 in fruit or vegetables, by g.c., 6G31
 with its metabolites, by h.p.l.c., 1G38
 in plants, soil or water, by g.c., 3G42
 in rapeseed plants, with its metabolites, by g.c., 1G39
 sepn. from other carbamates, by t.l.c., 1G36
 of urinary metabolites of, by h.p.l.c., 5D85
- Carbohydrates**, see also under headings such as *Aldoses; Monosaccharides*; etc.
 analysis, by chemical-ionisation m.s., 2D109
 by h.p.l.c., evaluation of eluent recycling and column life in, 5F26
 review, 4F3
 by pyrolysis - g.c., review, 2J56
 by two-dimensional t.l.c., review, 5J74
 of C_2 to C_7 , by g.l.c. of TMS - oxime deriv., 3C25
 of cellulose, by g.c., 2C100
 of fermentable sugars in tropical grasses, by h.p.l.c., 3G21
 of neutral and amino-sugars derived from glycoproteins or polysaccharides, by g.l.c. of corresponding alditol acetates, 2D120
 of neutral and amino-sugars in bacterial cell walls, by g.c. of corresponding alditol acetates, 2D121
 of reducing sugars, liquid chrom. of dansyl deriv., 3D144
 of sugars in biol. fluids, liquid chrom., with post-column reaction with hexa-amminecopper(II), 2D108
 of sugars in foods, by h.p.l.c., 4F24
 of urinary oligosaccharides, by h.p.l.c. of ^3H -labelled alditols, 2D122
 by t.l.c., source of error in, 3D153
 chromatography of, 2C132B
 detection of sugar deposits on cotton, colour reaction for, 1C101
 of sugars in cotton lint, colorim., 2C106
 detmn. in beer, collaborative study of colorim. method for, 2F53
 in brewing materials, by h.p.l.c., 5F61
 in cocoa powder, near-i.r. reflectance spectroph., 1F40
 in lipoproteins, by tungstophosphate - MgCl_2 pptn. - colorim., 1D217
 in sea-water, review, 1H72
 of cellulose and non-cellulose, in sediments, by g.c., 5H86
 of glycolytic intermediates in blood platelets, by pulse-labelling with $^{32}\text{P}\text{O}_4^{3-}$ - paper chrom., 5D6
 of insulin, reducing sugars and sucrose in chicory root, by h.p.l.c., 3F44
 of neutral sugars in neutral detergent fibre, by enzymic hydrolysis - h.p.l.c., 6F4
 of reduced sugar and total sugar in tobacco, automated, 5D3
 of reducing sugars in blood serum, continuous-flow potentiom., with IO_4^- -selective electrode, 6D146

Carbohydrates, determination—continued

- of reducing sugars in cotton, colorim., 1C102
- of reducing sugars and sucrose in foods or plants, by h.p.l.c., 3F6
- of sol., spectroph., 5F25
- of sugars in beer or wort, by h.p.l.c., 4F57
- of sugars in blood, with Visidex test strip, 2D107
- of sugars in confectionery products, by h.p.l.c., 4F8
- of sugars in cotton, enzymic - spectroph., 2C105
- of sugars in tobacco, automated, 1D4, 1D5
- of total fermentable sugars in sugar-factory products, enzymic - spectroph., 2F16
- fast-atom-bombardment studies of oligosaccharides, 3C26, 3D12
- fractionation of extracts of, from grasses, by h.p.l.c., 4G10
- g.c. - fast-atom-bombardment m.s. studies of sugars, 3J58
- sepn. from ethanol and sugar alcohols and from each other, by h.p.l.c., 5C17
- of isomeric oligosaccharides from glycoproteins, by h.p.l.c., 6D150
- of oligomeric, accelerated reversed-phase chrom., 1C26
- of oligosaccharides, by h.p.l.c. or gel chrom., 2D123
- of oligosaccharides from mannosidosis urine, liquid chrom., 6D151
- of oxidation products of, by g.l.c. of TMS deriv., 5C18
- of sugar enantiomers, by g.l.c. of trifluoroacetylated (-)-bornyloxime deriv., 5C16
- by g.l.c. of TMS ethers of α -methylbenzylaminoalditol acetates, 5C15
- sepn. and characterisation of sugars, by t.l.c. using chromophoric labelling reagent, 3C24
- sepn. and detmn. in hydrolysates of cellulose-containing materials, by g.c. of TMS deriv. or by h.p.l.c., 2C101
- in wine, liquid chrom. - triple-pulse amperom., 5F68
- of neutral sugars from plant-cell walls and mucilages, by h.p.l.c., 3D145
- sepn., identn. and detmn. in brewing materials, by h.p.l.c., review, 6F57
- Carbohydrazide, 1,5-bis(di-2-pyridylmethylene)thio**, as analytical reagent, 4A10
- β -Carboline, 1,2,3,4-tetrahydro-6-hydroxy-1-methyl**, detmn. in alcoholic beverages or foods, by g.c. of pentafluoropropionyl deriv. - m.s., 3F49
- Carbon**, see also *Carbonate-carbon*; *Graphite*
- analysis of films containing stainless steel and, with electron microprobe, 5B188
- of powdered activated, in biol. systems, thermogravim., 2A4C
- applications and synthesis of ^{14}C -labelled compounds, 6A2C
- characterisation of active, by g.s.c., 5B93
- detmn., by XRF, 2J86
- in air-borne dust, automated system for, 3H17
- in chromium and aluminium alloy plating films, laser micro-spectrosc., 6B134
- in coal, by photon activation, 6B186
- in liquid sodium, review of electrochem. techniques for, 3B23
- in metals, by combustion - non-aq. photom. titration, 2B86
- in niobium, by deuterium activation, 2B118
- in org. compounds, see under *Organic elementary analysis*
- in silicon, by charged-particle activation, 5A4C
- in steel, emission spectrom., 4B169
- giant-pulse laser spectrochem., 1B160
- of benzo[a]pyrene in black, enzymic - fluorim., 2C55
- of black, on silver membrane filters from rubber-factory dust, gravim., 5H41
- of ^{13}C , i.r. spectroph., 1D38
- of ^{14}C in cell exudates, by u.v. photo-oxidation - liquid scintillation counting, 2D51
- in plants, by liquid scintillation counting, sample preparation for, 6D31
- of concn. and distribution of, in germanium crystals, autoradiogr., 2B95
- of elements in particulate, by lithium borate fusion - a.a.s., 4B10
- of inorg., in sea-water, radiom., 3H83
- in water, extraction methods for, 6H43
- of isotopes of, in foods, review of applications of, 2F2
- of non-methane org., in air, by cryogenic pre-concn. - flame ionisation detection, 3H27
- of org., and of stable-isotope ratios, in biol. materials, by m.s., 2D50
- in sea-water, by automated photo-oxidation - i.r.-spectroph. method, 3H88
- in water, by photo-oxidation - i.r. spectroph., 3H71, 4H65
- of particulate, in sludge or water, 5H64
- of stable isotopes of, by m.s., high-precision apparatus for measurements on ng samples in, 4J106
- preparation of deuteromethane for, 4B105
- recovery of org., from air-borne particulate, by Soxhlet extraction, 2H26
- sepn. of org. and elementary, in air-borne particulate, 2H25
- Carbon dioxide**, detmn., with Cobas-Bio centrifugal analyser, 2D20
- in air, by g.c., low-temp. sampling technique for, 1J6
- in argon, coulom., 4B23
- in beer, by ethanolamine fixation - manom., 5F63
- in blood plasma or blood serum, evaluation of ion-selective electrolyte slides for, 2D38

Carbon dioxide, determination—continued

- in blood serum, with Beckman Astra 8 analyser, stabilisation for, 6D25
- in flue gases, review of history of analysers for, 1A5
- in gas mixtures, i.r. analyser for, 3J5
- membrane electrode for, 2J171
- non-dispersive i.r. photom., 4J9
- osmom., 6D33
- in high-purity gases for semiconductor fabrication, by g.c. - m.s., 2J75
- in ice, i.r. spectroph., with use of dry-extraction device, 4H54
- in natural gas, by g.c., 2C59
- in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113
- in products of oxychlorination of ethylene, by g.c., 3C18
- in pyrolysis gases, reference material for, 2A12
- in sea-water, calibration of i.r. gas analyser for, 3H84
- in small gas vol., by m.s., 2J138
- in vacuum system, by m.s., 3J7
- in volcanic gases, 6H8
- in water, by g.c., 3H46
- of pCO_2 in blood, with miniature FET sensor, 2J162
- comparison of control materials for, 3D21
- of $^{13}\text{CO}_2$ in breath, by m.s., problems of contamination in, 4D21
- of $^{14}\text{CO}_2$ in breath, by liquid scintillation counting, 6D32
- of dissolved, in diesel fractions, by g.c., 4C56
- of H in technical-grade, by g.c., 1B99
- of 'polyatomic' gases in, optoacoustic spectrom., 4H4
- Carbon monoxide**, detection, with screen-printed multi-layer SnO_2 sensor, 6J12
- detmn., coulom., 6B85
- in air, apparatus for continuous, 2H17
- by g.c., 5H13
- by time-of-flight m.s., 5J7
- by triple-quadrupole m.s., 4H11
- semiconducting sensor for, 3J8
- with use of electrochem. sensors, 1J8
- in atmospheric emissions from cellulose or paper manufacture, by g.c., 2H12
- in gas mixtures, non-dispersive i.r. photom., 4J9
- in photolysis products of hexafluoroacetone, by g.c., 5C20
- in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113
- in pyrolysis gases, reference material for, 2A12
- in small gas vol., by m.s., 2J138
- in vacuum system, by m.s., 3J7
- of impurities in high-purity samples for semiconductor fabrication, by g.c. - m.s., 2J75
- response of Clark-type O electrode to, 5D15
- Carbon tetrachloride**, detmn. in air, by g.l.c., 4H20
- in fumigated cereals, by g.l.c., 4G24
- in products of oxychlorination of ethylene, by g.l.c., 3C18
- of trace elements in, emission spectrom., 3J82
- identn. and detmn. in tin tetrachloride, by g.l.c. - m.s., 3B95
- Carbonate**, detmn. in presence of other anions, by g.l.c. of t-butyl-dimethylsilyl deriv. - m.s., 2B15
- Carbonate dehydratase**, see under *Enzymes, specific*
- Carbonate-carbon**, detmn. in minerals or soils, by acid digestion - two-end-point titrim., 1G12
- Carbonic anhydrase**, see *Enzymes, specific*, carbonate dehydratase
- Carbonyl compounds**, analysis of beer, by h.p.l.c. of 2,4-dinitrophenylhydrazones, 3F48
- as thermom. indicators for titration of carboxylic acids or phenols, 3A19
- detmn. in brewing materials, by g.c., review, 6F58
- Carbosulfan**, detmn. in plants, soil or water, by g.c., 3G42
- Carboxylesterase**, see under *Enzymes, specific*
- Carboxylic acids**, for higher members of the series see *Fatty acids*
- analysis, by g.c. of cyclohexylmethyl or naphthylmethyl esters - m.s., 4C19
- by reversed-phase h.p.l.c., choice of buffer for, 4D207
- of free volatile, in cheese, by steam-distillation, 6F44
- of short-chain, from anaerobic bacteria, by h.p.l.c., 3D159
- detection, colour reaction for, 2C27
- fluorescent labelling reagent for, 2C8
- detmn., by titration of 5-benzylthiouronate deriv., 4C3
- catalytic thermom. titrim., thermom. indicators for, 3A19
- indirect spectroph., 3C32
- spectroph., 1C29
- in silage, by h.p.l.c., 3G23
- in sugar-refinery products, by g.l.c. of butyl esters, 4F21
- of absolute configuration and enantiomeric composition of α -deuterated, by n.m.r., 1C11
- of total volatile, in strawberries, by steam-distillation - titrim., 2F33
- of volatile, in anaerobic fermenter contents, bacterial cultures, digestive contents or silage juices, by g.l.c., 2D132
- in aq. samples, by ion exchange - t.l.c., derivatisation for, 5A2C
- in dairy products, by steam-distillation - g.l.c., 1F26
- identn. in acrylic copolymers, by alkylation - pyrolysis - g.l.c. or i.r. spectroph., 3C111

Carboxylic acids, identification—continued

- in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
- of volatile, by g.c. of butyl esters - m.s., 6D159
- identn. and detmn. in environmental materials, by triple-quadrupole m.s., 4H68
- paper-chrom. study of, 6J47
- sepn., anion chrom., 2C29
 - by g.l.c. of TMS deriv., 6F5
 - by h.p.l.c., 2J44
- Donnan exclusion chrom., 2C28
- from inorg. anions and from each other, ion chrom., 5J64
- of enantiomeric, by h.p.l.c., 5J36
 - by h.p.l.c. of 3,5-dinitroanilide deriv., 2J22, 6J27
- of enantiomeric α -branched, by g.c., derivatisation reagents for, 4C4
- of urinary, by h.p.l.c., 1D118
- of weak, ion chrom., 1H56
- sepn. and detmn., ion chrom., 4E37
- in fruit juices or wines, by h.p.l.c., 1F50
- in ozonolysis products of phenol, by h.p.l.c., 4H76
- **anhydrides**, detmn. of polycyclic aromatic, in air-borne dust, by g.c. and g.c. - m.s., 4H26
- **esters**, identn., by g.c., 3C1
 - in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
- **hydrazides**, detmn., spectroph., 3C39
- Carboxylic acids, aliphatic**, detmn. in water from shale oil process, liquid chrom. - m.s., 5J51
- sepn. and detmn., by h.p.l.c., pre-column derivatisation for, 3C31
- , —, **anhydrides**, detmn. of free acid in, i.r. spectroph. or titrim., 1C30
- , —, **C₂ to C₂₀ n-**, sepn. of free acids and of their methyl esters, by g.c., 2C30
- , **aromatic**, reversed-phase h.p.l.c. study of, 1C42
- sepn. of urinary, ion-exchange chrom., 5D103
- , **C₁ to C₄**, analysis, by g.c. of *p*-bromophenacyl esters, 4H94
- , **C₂ to C₄**, detmn. of saturated, in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113
- , **C₂ to C₅**, detmn. in air, by adsorption on coated glass beads - g.c., 2H30
- , **C₂ to C₈**, detmn. in water, by h.p.l.c., 4H93
- , **hydroxy-**, analysis of blood-plasma, by g.l.c., 1D121
- detection in samples from patients with various diseases, by g.l.c., review, 6D2
- sepn., by g.l.c. of TMS deriv., 5C18
- of enantiomeric α - or β -, by g.c., derivatisation reagents for, 4C4
- of enantiomers of 2- or 3-, by g.l.c. of alkyl esters, 4C18
- , **2-oxo-**, detmn. in blood plasma, by h.p.l.c. of quinoxalinol deriv., 5D99
- , **phenolic**, partition-paper-chrom. study of, 4C31
- sepn. from anthocyanidins, anthocyanins and related substances, by h.p.l.c., 4D270
- sepn. and identn. in nuts, by g.l.c. of TMS deriv. - m.s., 6F49
- in urine, by g.l.c. of trifluoroacetyl deriv. of butyl esters - m.s., 1D123
- Carbutamide**, detmn., colorim., 4E3
- Carcinogens**, see under **Hazards**
- Cardboard**, see **Paperboard**
- Cardiac glycosides**, analysis in plant extracts, liquid chrom. - positive-ion chemical-ionisation m.s., 5J52
- sepn., 5J20
- of *Urginea maritima*, by h.p.l.c., 2E18
- Cardiolipin**, sepn. from phosphosphingomyelin, liquid chrom., 4D164
- Cardinalite**, detmn. of Na in, or in products of its desiccation, potentiom., with ion-selective electrode, 4B35
- Carnosine**, detmn. in meat, by h.p.l.c., 5F34
- Carob flour**, detection in cocoa-based confectionery products, by t.l.c., 4F25
- Carotenes**, detmn. in grass or silage, colorim., 6G17
- of α - and β -, in blood serum, by h.p.l.c., 5D173
- in foods, by h.p.l.c., 5F53
- in fruit or vegetables, by h.p.l.c., 2F31
- of β -, in blood plasma, by h.p.l.c., 5D174
- sepn. from other plant pigments, by t.l.c., 6D256
- Carotenoids**, analysis, by h.p.l.c., 1D220
- detmn. in blood serum, effect of sample-collection time and of sample treatment in, 6D266
- of microbial, in lipid mixtures, by h.p.l.c., 1D219
- sepn., by h.p.l.c., 4D271
- from lycopene and xanthophylls and from each other, by t.l.c., 6G6
- sepn. and identn. in citrus fruit, by h.p.l.c., 3F39
- , **κ -Carrageenan**, sepn. of sulphated oligomers of, by h.p.l.c., 2D123
- Carrots**, analysis of org. acids in lactic acid-fermented, by h.p.l.c., 5F51
- detmn. of carbofuran and its metabolites in, by h.p.l.c., 1G38
- of linuron and its metabolite in extracts of, by g.l.c. of heptafluoro-butyl deriv., 6G25
- Cartilage**, detmn. of sulphated mucopolysaccharides in, or in cultures thereof, spectroph., 2D125
- Carvacrol**, detmn. in presence of other terpenoid alcohols, by h.p.l.c., 4C67
- of thymol, by h.p.l.c. - electrochem., 4C41
- Carvone**, detmn. in head-space vapours of treated potatoes, by g.c., 3G28
- , (+)-**dihydro-**, detmn., by g.c. - circular dichroism spectrom., 6J68

Caseins, analysis, by h.p.l.c., 2F26

- of amino-acids in, preparation of hydrolysates for, 4F10
- of peptides in hydrolysates of cow's-milk or goat's-milk, by h.p.l.c., 6F45
- detmn. in milk, by isoelectric pptn. - dye-binding method, effects of K₂Cr₂O₇ and sample-storage time in, 2F25
- of As in, by a.a.s., 3C102
- effect of racemisation on *in vitro* digestibility of, 1F7
- micelle size analysis, using nanosizer, 5A5C
- sepn. and detmn. in milk, gel electroph., 3F33
- liquid chrom., 3F32
- Cassiterites**, characterisation, by spark-source m.s. detmn. of Zr-to-Hf ratios, 1B192
- Castor oil**, detmn. of free fatty acids in, i.r. spectroph., 6C87
- Catalase**, see under **Enzymes, specific**
- Catalysts**, analysis of mixed sodium oxide - aluminium oxide, X-ray diffractom., 6B191
- of surfaces of, by fast-atom-bombardment m.s., 3J118
- applications of surface-characterisation methods in studies of, review, 4B2
- detmn. of acidity of solid, comparison of org. bases for, 5B184
- of Cl⁻ in alumina, amperom., without applying external e.m.f., 4B148
- of Co in hydrofining, spectroph., 5B149
- of noble metals in, by XRF with 'direct' β -excitation, 3B174
- of Pd in aluminium oxide carrier after extraction of noble metal from used, 6B192
- of Pd in polymer-supported, by a.a.s., 1B203
- of Pt concn. profiles in pelleted, by XRF - electron microsc., 5B186
- of residues of, in fuel oils, by n.a.a. detmn. of Al, 1C85
- of Ru in alumina or silica - alumina-based, by a.a.s., 2B162
- of total specific and differential metal surfaces of, by N sorption - thermal desorption - g.c., 5B185
- of V^{IV} and V^V in, amperom. or potentiom., 4B212
- Catalytic analysis**, review, 2A5
- Catechol derivatives**, detmn., potentiom., with Pb²⁺-selective electrodes, 3C46
- , **chloro-**, sepn. from chlorophenols and from each other, by g.c., 3C44
- of acetylated, from related compounds and from each other, by g.c., 2C50
- Catechol methyltransferase**, see under **Enzymes, specific**
- Catecholamine derivatives**, analysis, by h.p.l.c., comparison of detection systems for, 3D202
- detection of *O*-sulphates of, fluorim., 4D196
- detmn., by triple-quadrupole m.s., 3D11
- fluorim., 5D119
- with their metabolites, by h.p.l.c., 4D192
- enzyme electrode for, 4D193
- in biol. materials, by alumina extraction - enzymic - radiom., 4D195
- review, 4D187
- in biol. tissues, by h.p.l.c., 4D190
- in blood plasma, by h.p.l.c., comparison of detection systems for, 4J46
- comparison of methods for, 4D189
- review, 2D194
- in blood plasma or urine, by h.p.l.c., with post-column derivatisation with 2-cyanoacetamide, 6D200
- in blood serum, use of 'mean net standards' in, 2D197
- in brain tissue, with their metabolites, by h.p.l.c., with thin-layer electrochem. detector, 1D151
- in urine, by h.p.l.c., stabilisation for, 3D201
- by isolation on immobilised H₃BO₃ - h.p.l.c., 4D191
- extraction from urine, h.p.l.c. study of alumina procedure for, 2D195
- liquid chrom. - electrochem. studies of systems containing, review, 1D154
- reversed-phase h.p.l.c. study of, with crown ether-containing mobile phase, 1D153
- sepn. and detmn. in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D152
- Cathepsin D**, see under **Enzymes, specific**
- Cations**, ion-exchange studies of transition-metal and post-transition-metal, 6B2
- paper-chrom. studies of, review, 1B5
- sepn. and detmn. of org., liquid chrom., 5C23
- sepn. and identn., by t.l.c. on plates similar to microscope slides, 4B8
- t.l.c. study of, 1B6
- Cauliflower**, detection and detmn. of zineb in leaves of, by t.l.c. - spectroph., 1G30
- Cefadroxil**, detmn., differential pulse polarogr. or linear-scan voltamm., 2E25
- Cefapirin**, detmn., differential pulse voltamm., 2E25
- mercurim., 2E24
- in blood serum, by h.p.l.c., 6D61
- Cefmenoxime**, detmn. in blood plasma or urine, by h.p.l.c., 5D38
- Cefoperazone**, detmn. in blood plasma, cerebrospinal fluid or urine, by h.p.l.c., 4D62
- in blood serum or muscle tissue, by h.p.l.c., 5D35
- Cefotaxime**, detmn. in blood serum, by h.p.l.c., 6D61
- Cefoxitin**, detmn. in bile, by h.p.l.c., 5D36
- in blood serum, by h.p.l.c., 6D61

- Ceftizoxime**, detmn. in blood serum, by h.p.l.c. with sepn. by anion exchange, 1D56
- Ceftriaxone**, detmn. in blood plasma, saliva or urine, by h.p.l.c., 5D37
- Celiprolol**, detmn. in blood plasma or urine, by h.p.l.c., 1D82
spectroph., 1D81
- Cellodextrins**, sepn., accelerated reversed-phase chrom., 1C26
- Cellulose**, analysis of carbohydrates in, by g.c., 2C100
detmn. in plants, use of standard samples for control in, 1G18
in sediments, by g.c., 5H86
sepn. and detmn. of carbohydrates in hydrolysates of materials containing, by g.c. of TMS deriv. or by h.p.l.c., 2C101
thermoanalytical study of, 1B190
- **ethers**, analysis, by g.c. and i.r. methods, 2C99
detmn. of distribution of alkoxy-substituents on glucose units in, by h.p.l.c. of benzoates, 6C73
- Cellulose, carboxymethyl-**, detmn. of As in, by a.a.s., 3C102
of heavy metals in, voltamm., 3E1
- , **methyl-**, detmn. of heavy metals in, voltamm., 3E1
- Cement**, detmn. of elements in, by n.a.a., 5B194
by XRF, review, 4B172
of P in, emission spectrom., 6B196
of Ti in, spectroph., 3B97
thermal-analytical study of mechanism of hydration and role of admixture in, 2A4C
- Centrifugation**, non-synchronous flow-through coil - planet system for, 5J24
- Cephalixin**, detmn., differential pulse polarogr., 2E25
mercurim., 2E24
- Cephaloridine**, detmn., mercurim., 2E24
- Cephalosporanic acid, 7-aminodesacetoxy-**, detmn., mercurim., 2E24
- Cephalosporins**, analysis of Na salts of, by thermal methods, 2E26
sepn., by h.p.l.c. or t.l.c., 3E22
sepn. and detmn. in presence of penicillins, by h.p.l.c. - fluorim., 2E20
- Cephalothin**, detmn., mercurim., 2E24
- Cephmandol**, detmn. in blood serum, by h.p.l.c., 6D61
- Cepharanthine**, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
- Cephazolin**, detmn., spectroph., 1E37
in blood serum, by h.p.l.c., 6D61
- Ceramics**, see also *Glazes*
analysis, report of conference on micro-probe methods in, 1A1C
detmn. of element distribution in, with laser micro-spectral analyser, 3B173
of elements in ancient, by n.a.a., sample preparation for, 6J122
of elements in shards, by PIXE, preparation of thin samples for, 1B202
of metals leached from, collaborative study of a.a.s. method for, 5B182
of Th and U in, by secondary-ion m.s., 1B204
Raman micro-probe spectroscopy of, 1A1C
- Ceramides**, sepn. of trimethylaminoethylphosphonate of *trans-D-erythro-*, from 1-O-alkyl-2-acetyl-sn-glycero-3-phosphonocholine, liquid chrom., 5D112
- Cereals**, see also names of specific cereals
analysis, supersession of traditional methods in, 4F28
of sugars in hydrolysates of fibres of, by h.p.l.c., 3G2, 6G5
detection of aflatoxins in dusts of, by t.l.c., 3G4
of fusariotoxins in, by g.l.c. of TMS deriv., 5G10
of picloram in, by t.l.c., 4G16
of T-2 toxin in, by t.l.c., 3G5
of trichothecenes in mouldy, by t.l.c., 5G20
detection and detmn. of emodin in, by t.l.c. and h.p.l.c., 3G24
detmn. of Cd in, automated spectroph., 5F4
of chlorsulphuron in grain, green plants or straw of, by h.p.l.c., 1G26
of citrinin in, by h.p.l.c., 4G5
of dietary fibre in processed foods based on, near-i.r. reflectance spectroph., 4F30
of elements in, by XRF, 6F25
of fumigants in, by g.l.c., 4G24
of Hg in, modified Schoniger system for, 4G1
of N, P and K in, by n.a.a., 5G2
of phytate in, review, 5F27
of starch in ground, enzymic - electrochem., 3F14
enzymic - electrochem., comparison of dispersion methods for, 3F15
of thiamine in, by g.l.c., 6F9
of Ti in, differential pulse polarogr., 6G3
of xanthomegnin in, by h.p.l.c., 5G21
identn. of tri-allele in pellets of, by g.l.c. - m.s., 2G18
use of near-i.r. reflectance as process-control tool for wet milling of, review, 4F27
- Cerebrosides**, detmn. in brain- or liver-tissue lipids, by t.l.c., 3D171
- Cerebrospinal fluid**, analysis of glycoproteins in, gel electroph., comparison of staining methods for, 6D247
assay of acetylcholinesterase in, by kinetic method, 5D216
of total and brain-specific creatine kinase in, by bioluminescence method, 1D262
detection of 3,4-dihydroxyphenylacetic, 5-hydroxyindol-3-ylacetic and 4-hydroxy-3-methoxyphenylacetic acids in, by h.p.l.c., 3D205
detmn. of cefoperazone in, by h.p.l.c., 4D62
- Cerebrospinal fluid**, determination—*continued*
of cytarabine and its metabolite in, by h.p.l.c., 6D69
of 3,4-dihydroxyphenylacetic acid, dopa, dopamine, 4-hydroxy-3-methoxyphenyl-acetic acid and -alanine, 5-hydroxy-indol-3-yl-acetic acid, -tryptamine and -tryptophan and noradrenaline in, by h.p.l.c., 1D155
of dihydroxyphenylacetic acid and 5-hydroxyindole deriv. in, by h.p.l.c., 1D164
of F⁻ in, potentiom., with ion-selective electrode, 6D43
of glutamine in, by h.p.l.c. of phthalaldehyde deriv., 6D214
of glycerol in, by g.l.c. of TMS deriv., 5D81
of 5-hydroxyindol-3-ylacetic acid, 4-hydroxy-3-methoxyphenylacetic acid and 4-hydroxy-3-methoxyphenylethanol in, by h.p.l.c., 4D192, 5D105
of 5-hydroxyindol-3-ylacetic acid, 4-hydroxy-3-methoxyphenylacetic acid, 5-hydroxytryptamine and 5-hydroxytryptophan in, by h.p.l.c., 2D202
of IgG in, agarose gel electroph., 5D159
by enzyme immunoassay, 6D241
of α_2 -macroglobulin in, review, 3D256
of myelin basic protein in, by r.i.a., 3D257
of piperacillin in, by h.p.l.c., 3D64
of post-gamma-globulin in, by r.i.a., 4D252
of probenecid in, by h.p.l.c., sample preparation for, 2D100
of protein in, by kinetic - spectroph. method, 2D240
comparison of methods for, 4D244
comparison of spectroph. methods for, 6D228
comparison of spectroph. and turbidim. methods for, 6D229
evaluation of benzethonium chloride method for, 2D242
interference in *aca* method for, 2D241
of pyridine-4-amine and pyridine-3,4-diamine in, by h.p.l.c., 3D131
of razoxane in, by h.p.l.c., 6D123
of Zn in, by a.a.s., 3D34
sepn. and detection of proteins in, by isoelectric focusing - immunofixation, 6D226
sepn. and detmn. of catecholamine deriv. and indolamine deriv. in, by h.p.l.c., 1D152
- Cerenkov counting**, effect of reagent concn. on efficiency in, 1J185
- Cerium**, concn. from water, by co-pptn. with MnO₂, 3H52
detmn., amperom., 1B84, 5B77
coulom., 3B17
spectroph., 3B67, 4B83
in alloys, spectroph., 2B66
in coal or fuel oil, emission spectrom., with pre-concn. on poly-(dithiocarbamate) resin, 5B179
in copper, flame photom., with sepn. by amalgam electrolysis, 6B36
in hydriding alloys, emission spectrom., 2B158
in iron or steel, by co-pptn. with LaF₃ - spectroph., 4B178
in presence of La, Nd, Pr and Sm, by h.p.l.c. - spectroph., 2B63
of other rare-earth metals, by t.l.c. - spectroph., 6B68
in rare-earth-metal oxides or yttrium, stripping voltamm., 1B86
in silicates, by n.a.a., interference from U in, 6B95
spectrogr., 1B107
in steel, spectroph., 4B76
in technical materials, by kinetic - spectroph. method, 2B67
in yttrium oxide, emission spectrom., 2B62
of Ce^{III} and Ce^{IV} in presence of Cr, La, Ti, U and Zr and of each other, ion-exchange chrom. - spectroph., 5B19
sepn. from Cs and Co, ion-exchange chrom., 5J67
of Ce^{III} and Ce^{IV}, magneto-paper electroph., 3B15
from Th, by t.l.c., 6B3
from Ti, ion-exchange chrom., 6B106, 6B107
from Zr, by t.l.c., 6B110
of ¹⁴⁴Ce from other fission-product elements, liquid chrom., 6B22
of isotopes of, by h.p.l.c. or t.l.c., 6B69
solvent extraction of, with crown ethers, 3B66
with liquid anion exchangers from malonate soln., 1B87
with tributyl phosphate from HNO₃ soln., 3B84
solvent extraction and redox equilibria of, 3B86
- Cerium, reagents for**, arsenazo III, 2B63
arsenazo III - Na molybdate, 2B66
chlorophosphonazo III, 6B68
m-formylchlorophosphonazo, 4B76
methylthymol blue, 4B83
quinizarin complexan, 3B67
tiron, 5B19
o-toluidine, 4B178
- Cetrimide**, detmn. of Br⁻ activity in soln. of, potentiom., with ion-selective electrode, 2E58
- Chalcopyrite**, detmn. of elements in, by PIXE, 2B3
d.t.a. study of conversion to copper sulphate of, 2A4C
- Cheese**, analysis of free volatile fatty acids in, by steam-distillation, 6F44
of peptides in casein hydrolysates from cow's-milk or goat's-milk, by h.p.l.c., 6F45
detection of cow's-milk protein in goat- or sheep-milk, immunoelectroph., 6F43
detmn. of aflatoxin M₁ in, by h.p.l.c., 4F47
of amines in, with amino-acid auto-analyser, 2F4
of BHA, BHT and TBHQ in, by g.l.c., 4F50
of benzoic acid, 4-hydroxybenzoic acid esters and sorbic acid in, by h.p.l.c., 3F35

Cheese, determination—*continued*

- of biogenic amines in, ion-exchange chrom., 4F9
- of free fatty acids in, by g.l.c., methylation method for, 1F32
- of halides in, comparison of methods for, 4F49
- of H_2O_2 in, colorim., elimination of interference by lipid peroxides in, 2F1
- spectroph., 6F12
- of 1,2,3,4-tetrahydro-6-hydroxy-1-methyl- β -carboline in, by g.c. of pentafluoropropionyl deriv. - m.s., 3F49
- Chelidonium**, extraction from *Chelidonium majus* root, 1E17
- Chemical oxygen demand**, detmn., semi-micro permanganate method for, 2H74
- of treated effluent from night-soil-treatment plants, effect of N compounds in, 2H98
- of waste water, detmn., effects of sample pre-treatment in, 6H70
- possible interferences in, 6H69
- of water, detmn., continuous-flow system for, 4H35
- Chemiluminescence analysis**, see also *Electrochemiluminescence analysis*
- absorption-corrected measurements in, with dual-pathlength spectrometer, 2J125
- applications of, in clinical analysis, review, 4D1
- interferences in luminol methods for, 6A21
- reagents for use in flow-injection methods for, 6D209
- Chemiluminescence immunoassay**, review, 6D8
- Chenodeoxycholic acid**, detmn., by g.l.c., double derivatisation reaction for, 3D193
- potentiom., ion-selective electrode for, 1E12
- Chewing-gum**, analysis, scheme for, 2F17
- detmn. of sugar alcohols in, by h.p.l.c., 5F7
- of sugars in, by h.p.l.c., 4F8
- identn. and detmn. of lobeline hydrochloride in 'anti-smoking', by h.p.l.c., 1E29
- Chleory**, detmn. of inulin, reducing sugars and sucrose in root of, by h.p.l.c., 3F44
- of reducing sugars and sucrose in root of, by h.p.l.c., 3F6
- China White**, see *α -Methylfentanyl*
- Chinoform**, see *Clioquinol*
- Chloral hydrate**, detmn., differential pulse polarogr., indirect amplification method for, 6C19
- Chlorambucil**, detmn. in pharmaceutical preparations, u.v. spectroph., 4E76
- Chloramine T**, see *Toluene-4-sulphonamide, N-chloro-, sodium salt*
- Chloramphenicol**, chrom. methods for analysis of creams containing, 1E2
- detection, colour reaction for, 6E31
- detection and detmn. in blood, blood serum, meat, offal or urine, by g.c. of TMS deriv. - m.s. or by h.p.l.c., 1F25
- detmn., by h.p.l.c., with its degradation products, 5E20
- colorim., 4E3
- spectroph., 1E11
- in blood plasma, by h.p.l.c., 5D26
- in blood plasma or urine, by t.l.c. - h.p.l.c., use of Sep-Pak C_{18} cartridges in, 2D68
- in blood serum, by h.p.l.c., 6D61
- in creams, by h.p.l.c., 2E1
- in eggs, meat or milk, by h.p.l.c., 5F42
- in foods of animal origin, by h.p.l.c., 6F13
- of degree of degradation of, in eye-drops, by h.p.l.c., 5E21
- Chlorate**, detection, colour reactions for, 1B149
- detmn. in bleach liquor, ion chrom., 2C103
- in presence of BrO_3^- and ClO_2^- , absorptiom., 4B151
- in soil or water, difference chronoamperom., 2H57
- sepn. from other anions, high-performance ion chrom., 5B3
- Chlorbromuron**, detmn. in potatoes, by g.l.c., 3G33
- Chlorbutol**, detmn. in pharmaceutical preparations, by h.p.l.c., 3E78
- Chlordane**, detmn. in biol. tissues, by g.l.c. or g.l.c. - m.s., 3D143
- Chlordane derivatives**, detmn. in blood, with related compounds, by g.l.c., 2D105
- Chlordiazepoxide**, sepn. from related compounds, by h.p.l.c., 1D71
- Chloridineform**, detmn. in water, spectroph., 6H63
- Chlorhexidine**, detmn. in pharmaceutical preparations, by h.p.l.c., 4E68
- in waste water, by g.c. of methyl - trifluoroacetyl deriv., 1H92
- Chloride**, detmn., acceptable limits for precision and accuracy in, 3D3
- amperom., without applying external e.m.f., 4B148
- ISFET sensor for, 1J189
- potentiom., chemical response time of micro-electrode for, 2J167
- ion-selective electrode for, 3J142
- with ion-selective electrode, interference by Br^- and I^- in, 4A23
- stripping voltamm., electrolytic pre-concn. processes in, 1B146
- in acid rain, ion chrom., 1H56
- in acidic precipitation, by ion exchange - conductom., 4H37
- in air, by $Hg(SCN)_2$ method, 6H17
- spectroph., 6H16
- in air, technical products or water, spectroph., 6B140
- in air-borne dust, ion chrom., effect of gaseous HCl in, 4H17
- in aq. NaOH medium, ion chrom., 5B2
- in bleach liquor, ion chrom., 2C103
- in blood plasma or blood serum, by automated controlled-dispersion method, 2J11
- evaluation of ion-selective electrode slides for, 2D38

Chloride, determination—*continued*

- in blood serum, comparison of methods for, using pattern recognition, 2D21
- effect of lipaemia in SMAC method for, 2D19
- interference by Br^- in, 2D59
- in $Ca(NO_3)_2 \cdot 4H_2O$ melts, by coulom. thermom. titration, 1B147
- in feeding-stuffs, biamprom., 6G16
- in high-purity chemicals, by isotope dilution - m.s., 3B24
- in milk, potentiom., with ion-selective electrode, 4F43
- in plants, potentiom., with ion-selective electrode, 6G4
- in potassium nitrate, potentiom., with ion-selective electrode, with pre-concn. by directional crystallisation, 1B21
- in presence of Br^- and I^- , potentiom., with S^{2-} -selective electrode, 1C15
- of HClO, potentiom., with Cl^- -selective electrode, 2B136
- of other anions, ion chrom., 1H55
- on dynamically coated columns, 6B20
- without suppression, 6B19
- ion-interaction chrom., 4B17
- of other halides, potentiom., calculation of equiv. pt. in, 4A17
- in silicates, ion chrom., 4B149
- in spinning soln. for polyamide fibres, potentiom., 3C105
- in tobacco, automated, 5D3
- in viscose fibre settling baths, amperom., coulom. or potentiom., with ion-selective electrode, 1C107
- in volcanic gases, 6H8
- in waste water, portable test kit for, 2H93
- in water, automated ion chrom., 5H83
- by pyrolysis - g.l.c., as chlorocyclohexanol, 6H48
- ion-exchange pptn. chrom., 3H65
- sepn. from F^- , by selective formation of clathrate hydrates, 6B141
- from other anions, high-performance ion chrom., 5B3
- Chlorine**, detection of atomic, using coherent anti-Stokes Raman scattering, 1B148
- detmn., emission spectrom., effect of N in, 2J118
- mol.-absorption spectroph., 5B136
- in aluminium alloys, by n.a.a., 6B61
- in biol. materials, by n.a.a. *in vivo*, interferences in, 5D13
- in coal or oil shale, by O-bomb combustion - ion chrom., 2B167
- in hair, by photon activation, 1D19
- in milk powder, by PIXE, 6F34
- in org. compounds, see under *Organic elementary analysis*
- in petroleum or petroleum products, by n.a.a., 3C73
- by XRF, 3C81
- in plants, by XRF, 1G19
- in slag, by XRF or spectroph., 1B168
- of aliphatically bound, in pharmaceutical preparations, by KOH mineralisation - mercurim., 5E1
- of free, in HCl soln., indirect a.c. anodic-stripping voltamm., 3B126
- in water, continuous-flow u.v. spectroph., 4H63
- of residual, in sea-water, interferences in iodim. method for, 3H87
- in water, by flow-injection - colorim. method, 5H81
- correction for CrO_4^{2-} interference in, 5H82
- of residual free or total, in water, comparison of instrumental methods for, 2H68
- of total, in power-station cooling water, potentiom., with ion-selective electrode, 3H69
- Chlorine compounds**, detection and detmn. of org., in h.p.l.c. eluates, with modified Hall electrolytic-conductivity detector, 5C10
- detmn. of low-mol.-wt., in pulp-mill bleaching effluents, by g.c. or g.c. - m.s., 2H103
- of org., in blood, by g.c. - m.s., 1D111
- in blood serum or human milk, by n.a.a., 3D46
- identn. of org., mass-analysed ion-kinetic-energy spectrom., 6C11
- sepn. and detmn. of volatile and non-volatile org., in water, 6H52
- Chlorine dioxide**, detmn. in water, with rotating voltamm. membrane electrode, 2H69
- Chlorite (ion)**, detmn. in bleach liquor, ion chrom., 2C103
- in presence of BrO_3^- and ClO_3^- , differential pulse polarogr., 4B151
- Chlormethiazole**, detmn. in blood, by h.p.l.c., 5D44
- Chloroform**, artefact formation in solvent extraction of drugs and metabolites by, 4D49
- detmn. in products of oxychlorination of ethylene, by g.l.c., 3C18
- in pulp-mill bleaching effluent, by g.c. or g.c. - m.s., 2H103
- by g.c. - m.s., 3H100
- of trace elements in, emission spectrom., 3J82
- identn. and detmn. in tin tetrachloride, by g.l.c. - m.s., 3B95
- Chlorogenic acid**, detmn. in coffee, by isotachopheresis, 3F42
- in sunflower seeds, by h.p.l.c., 4G3
- partition-paper-chrom. study of, 4C31
- Chlorophyllide a**, detmn., by t.l.c. - fluorim., 4D276
- Chlorophylls**, detmn. in environmental materials, fluorim., derivation of equations used in, 6H60
- in sea-water, review, 1H72
- in water, fluorim., 3H82
- of a, in aquatic environments, fluorim. or spectroph., 5D178
- in phaeopigments, spectroph., comparison of extractants for, 3D268
- in seston, filters for, 2H91
- of a and b, by h.p.l.c., 1D224

- Chlorophylls**, determination—*continued*
 of *a* and *c*, by t.l.c. - fluorim., 4D276
 of *c*, delayed fluorim., 4H80
 sepn. from other plant pigments, by t.l.c., 6D256
 t.l.c. studies of, review, 6D257
- Chlorophyllene citrate**, detmn. in feeding-stuffs, urine or waste water, by h.p.l.c., 4G12
- Chloroquine**, detmn., titrim., 2E60
 in blood, with its metabolite, by g.l.c., 6D118
 in blood, blood plasma, blood serum or blood-cell suspensions, with its metabolite, by h.p.l.c., 3D117
 in urine, by reaction with chloroformate - g.l.c., 3D118
- Chlorothalonil**, detmn. in plants, soil or water, by g.l.c. or t.l.c., 6G32
- Chlorothen**, see *Chloropyrrole*
- Chlorothiazide**, detmn. in presence of related compounds, by t.l.c. spectroph., 2E63
- Chlorpheniramine maleate**, detmn. in presence of phenylephrine hydrochloride and Na benzoate, by h.p.l.c., 6E12
- Chlorpromazine**, detmn., spectroph., 2E46, 5E31
 titrim., 6E38
 in blood *in vivo* and *in vitro*, differential pulse voltamm., 2J185
 in blood or urine, differential pulse voltamm., 6J166
- **hydrochloride**, detmn., non-aq. titrim., 5E2
- Chlorpropham**, detection in water, fluorim., 3H82
 detmn., liquid chrom. - m.s., 1J51
- Chlorpyrifos**, detmn. in biol. materials, by g.c., 6D141
- Chlorsulphuron**, detmn. in cereals, by h.p.l.c., 1G26
- Chlortetracycline**, detection, by luminescence method, 4E22
 detmn., cyclic voltamm., with measurement at interface of two immiscible soln., 5E23
 in blood or milk, by agar-diffusion test, 6F41
- Chlorthalidone**, detmn. in pharmaceutical preparations, by h.p.l.c., 1E68
- Chlorthenoxazin**, detmn. in pharmaceutical preparations, by h.p.l.c., 5E28
- Chocolate**, analysis of sugars in, by h.p.l.c., 4F24
 detection of carob flour in, by t.l.c., 4F25
 detection and detmn. of cocoa butter substitutes in, by h.p.l.c., 4F26
 detmn. of As in, by a.s., 5F23
 of purine alkaloids in drinking, by h.p.l.c., 3F43
 of sugars in, by h.p.l.c., 4F8
 identn. of adenine in liquor, by h.p.l.c., 5F24
- 5 β -Cholanic acid**, sepn. from its hydroxy-deriv., by g.l.c. of methyl ester - TMS ether deriv. - m.s., 2D187
- 5 β -Cholanic acid derivatives**, sepn. of mono-, di- and tri-hydroxy-, from parent compound and from each other, by g.l.c. of methyl ester - TMS ether deriv. - m.s., 2D187
- Cholecalciferol**, analysis of mixtures with metabolites of, liquid chrom. - positive-ion chemical-ionisation m.s., 5J52
 chrom. studies of, and of its metabolites, review, 1D245
 detmn., by g.c. - m.s., 3D10
 in cod-liver oil, by h.p.l.c., 3F53
 in human milk, by h.p.l.c. - competitive protein-binding assay, 5D192
 sepn. of hydroxylated metabolites of, by t.l.c., 6D267
- , **1,25-dihydroxy-**, see *Calcitriol*
- , **25-hydroxy-**, see *Calcidiol*
- Cholecystokinin**, detmn. in biol. tissues, by r.i.a., 3D230
 of C-terminal tetrapeptide sequence of, by r.i.a., 4D230
- Cholestanol**, detmn. in faeces, by g.l.c., 1D134
 sepn. from epicholestanol, by t.l.c., 2D170
- 5 β -Cholestan-3 α -ol**, sepn. from its 3 β -epimer, by t.l.c., 2D170
- Cholestan-3-one**, detmn. in faeces, by g.l.c., 1D134
- Cholesterol**, detection, fluorescent labelling reagent for, 2C8
 detmn., acceptable limits for precision and accuracy in, 3D3
 enzyme electrode for, 2J175
 enzymic, comparison of enzymes for use in, 4D169
 enzymic - spectroph., minimisation of bilirubin interference in, 2D167
 evaluation of Ames Seralyzer for, 6D255
 evaluation of Hitachi 705 analyser for, 4D10
 test for drug interferences in enzymic kit method for, 2D23
 with Cobas-Bio centrifugal analyser, 2D20
 in biol. tissues, enzymic, 2D169
 in blood-plasma lipids, by field-desorption m.s., 2D155
 in blood serum, by flow-injection - enzymic - amperom. method, 2D29
 comparison of methods for, using pattern recognition, 2D21
 with use of MgCO₃ or MgCO₃ - Mg₂Si₂O₇ adsorption, 2D165
 in blood-serum lipoprotein fractions, comparison of methods for, 3D183
 in blood-serum lipoproteins, enzymic - fluorim., with direct measurement in effluent from zonal rotor, 6D185
 in faeces, by g.l.c., 1D134
 in tissue lipids, liquid chrom., with flame ionisation detector, 1D128
 in unsaponifiable matter of ghee, by g.l.c., as indication of degree of adulteration, 1F31
 of different chemical forms of, in blood serum, enzymic - spectroph., 6D183
 of free, in blood serum, by flow-injection - enzymic - amperom. method, 4D15
- Cholesterol**, determination—*continued*
 of free and total, in blood plasma, blood serum or urine, by isotope dilution - field-desorption m.s., 1D132
 of high-density-lipoprotein, comparison of methods for, 3D181
 interferences by pptg. reagents used in, 2D168
 inter-laboratory study of, 3D182
 review, 3D180
 in blood plasma, comparison of sepn. methods for use in, 2D166
 in blood serum, comparison of methods for, 6D184
 effect of sample storage in, 3D184
 enzymic - spectroph., 4D168
 identn. and detmn. of steroids in extracts from microbial conversion of, mass-analysed ion-kinetic-energy spectrom., 2D171
 sepn. from other liver-tissue lipids, by t.l.c., 3D170
- Cholesteryl esters**, detmn. in blood-plasma lipids, by field-desorption m.s., 2D155
 in tissue lipids, liquid chrom., with flame ionisation detector, 1D128
 sepn., by g.l.c., 1D133
 from other liver-tissue lipids, by t.l.c., 3D170
- Cholestyramine**, *in vitro* testing of granular, 2E67
- Cholic acid**, detmn., by g.l.c., double derivatisation reaction for, 3D193
 potentiom., ion-selective electrode for, 1E12
- Choline**, detmn., by g.l.c. - m.s., 4D205
 enzymic - spectroph., 4D142
 potentiom., ion-selective electrode for, 2J178
 in blood serum, by flow-injection - enzymic - amperom. method, 4D15
- **acetate**, detmn., by g.l.c. - m.s., 4D205
- **esters**, sepn. of aromatic, by h.p.l.c., 4D206
- Choline, acetyl-**, detmn., potentiom., ion-selective electrode for, 2J178
 in biol. tissues, review, 1D167
- , —, **chloride**, detmn., spectroph., 1E1
- , —, **derivatives**, t.l.c. study of quaternary halides, 3C68
- , **1-O-alkyl-2-acetyl-sn-glycero-3-phosphono-**, sepn. from other phospholipids, liquid chrom., 5D111, 5D112
- , **1-O-alkyl-2-acetyl-sn-glycero-3-phosphoryl-**, sepn. from other phospholipids, liquid chrom., 5D111
- , **arseno-**, **chloride**, secondary-ion m.s. study of, 3D13
- Cholinesterase**, see under *Enzymes, specific*
- Chondroitin D-glucuronosyl 5-epimerase**, see under *Enzymes, specific*
- Chondroitin sulphates**, sepn. from other mucopolysaccharides, liquid chrom., 4D145
- Choriogonadotrophin**, see *Gonadotrophin, chorionic*
- Choriomammotrophin**, detmn., by enzyme immunoassay, automated, 2D31
- Chromate**, detmn., coulom., 2B124
 sepn. from MoO₄²⁻ and WO₄²⁻, ion chrom., 3C40
- Chromatography**, apparatus for, review, 5J16
 applications of, in biochemistry, medicine and environmental research, report of symposium on, 6A5
 command language for data processing in, 4A26
 concn. profiles and breakthrough curves in non-linear, 1J22
 correction for non-linear drift in, 6J21
 estimation of variance of area of single peak in, 6J70
 fundamentals and applications of, 2J77B
 industrial analytical, 5J18
 interactive instrumentation for, 6J22
 sample-handling and detection techniques for analysis of pollutants by, 2A2C
 standard specimens of compounds for, 1J21
 standards for, 1A33B
 statistical approach to theory of, review, 5J17
 theoretical aspects of, 4J23
 use of regression and statistical methods to establish calibration graphs in, 6J39
 with differentiated isolated signal, review, 5J21
- Chromatography, gas**, apparatus for, for sepn. of heat-sensitive materials, 1J66
 incorporating microprocessor-controlled oven, 1J84
 microcomputer-controlled, 3J49
 applications of glass-capillary, review, 1J67
 of high-resolution, in environmental analysis, 4A1C
 calculation of retention time and peak width in temp.-programmed, 5J90
 of specific retention vol. of substances in, from their retention indices and specific retention vol. of n-alkanes, 5C1
 carrier gases for, electronic flow controller for, 1J83
 high-pressure capillary flow meter for, 5J91
 chemical methods of, 5J19
 column overloading in, 4J65
 column-cooling and -heating apparatus for, 4J70
 column-packing materials for, Ar-plasma treatment of, 2J67
 columns for, capillary, cold silanisation of glass, 2J62
 cutting of glass and fused-silica, 4J62
 development and applications of, review, 4J61
 dynamic leaching of sodium-glass, 5J83
 effect of reduction of column inner diam. in, 2J59
 environmental applications of, 3H3
 evaluation of glass, for geochemical analysis, 1H76
 preparation and deactivation of borosilicate-glass, 2J61

Chromatography, gas, columns for, capillary—continued

- preparation and use of packed, 1J73
- preparation of graphite-coated glass, 1J72
- preparation of polar WCOT fused-silica, 1J78
- selectivity characteristics of, 5J84
- thermostable deactivation reagents for preparation of, 5J85
- effects of irregularities in packing of, 6J61
- comparison of retention data in, using packed and capillary columns, 5C2
- coupled with a.a.s., review, 2J74
- coupled with FT i.r. absorption spectroscopy, accurate assignment of Kovats retention indices for, 6J67
- evaluation of linearity and sensitivity in, 3J56
- system for, and industrial applications of, 3C76
- coupled with FT i.r. spectrometry and m.s., analysis of complex mixtures by, 1J90
- coupled with FT m.s., computer-controlled systems for, 3J59
- coupled with m.s., 6A7C
- analysis of involatile samples by, using dense gas as mobile phase, 3J25
- computerised identn. of spectra in, 3J99
- confidence limits in isotope-dilution, 6J71
- direct coupling of instruments for, 5J142
- element- and isotope-specific detection in, 6A2C
- evaluation of calibration curve non-linearity in isotope-dilution, 1J182
- HP 5970A mass-selective detector for, 3J57
- interface for, for studies of ¹⁴C-containing compounds, 1J91
- with fused-silica transfer line, 3D10
- reproducibility of results of automated system for, 2G12
- review, 2J135
- stack-structured environment for data analysis in, 3A25
- strategies for compound identn. and detmn. by, 2J76
- system for, for detmn. of impurities in high-purity gases, 2J75
- transmission of org. molecules by silicone-membrane interface for, 5J94
- use of Finnegan ion-trap mass analyser in, 5J95
- using fast-atom Capillaritron source, 3J58
- detectors for, a.e.s., polychromator system for, 6J66
- circular dichroism, for detection of optically active substances, 6J68
- electron-capture, for high-temp. studies, with separated ionisation and capture regions, 3J55
- influence of acid impurities in water on, 1J89
- laser-modulated, 4J72
- linearisation of response to strongly responding compounds of, 4J73
- flame ionisation, effect of CO formation in flame on characteristics of, 5J93
- improvements in sensitivity of, 1J86
- optimisation and detmn. of absolute sensitivity of, 1J87
- using CO as flame fuel, 3J53
- flame-photom., detection of fluorescence by modified, 3J54
- effect of detector temp. on response to P and S compounds of, 6J65
- laser-based, review, 3J15
- microwave emission, derivatisation for enhanced detectability by, 2C1
- microwave-induced electrical-discharge, review, 6J69
- microwave-plasma emission spectrometers as, 2J69, 2J70, 2J71
- O-doped ion-mobility, 2J73
- pyroelectric sensor for katharom., 2J68
- thermal-conductivity, numerical model of heat-loss terms for, 3J52
- thermionic, design and evaluation of, 6J56
- modified for detmn. of organonitrogen compounds, 6J64
- new uses of, 1J88
- detmn. of metals by, review, 1B7
- developments in hardware for, review, 3J47
- effect of solvent trapping on retention time in, 2J58
- effect of H₂O content of sample on retention time in, 2J52
- efficiency of capillary cold traps for, 1J71
- effluent-splitter and fraction-collector for, 6J72
- evaluation of enrichment factor in pre-concn. for, 3J48
- glass-working methods for use in capillary, 2J60
- head-space technique for, desorption - injection system for use in, 5J82
- with sample-addition calibration, 1J69
- identn. and detmn. of components of complex mixtures by, using pattern recognition, 4J75
- identn. of compounds by, by pattern-recognition method, 3J60
- identn. of org. compounds by, from retention indices and by use of different detectors, 3C1
- length - time and capacity-ratio optimisation in, 4J24
- multi-channel integrator for, 5J22
- on-line hydrogenation of compound^a in capillary reactors in systems for, 1J93
- optimisation equations and limiting factors in packed-column, 3J51
- prediction of retention indices^a in, using topological, physicochemical and quantum chemical parameters, 4J74
- pyrolysis -, 6A3C
- computer programs for recognition of low-mol.-wt. org. compounds by, 2A21

Chromatography, gas, pyrolysis—continued

- detmn. of temp. rise-time and temp. profiles for sample holders for, 3J50
 - forensic applications of, 6C86
 - instrumentation and techniques for, review, 2J56
 - plasma-emission spectral detection for, 2J72
 - vapour-phase pyrolyser for use in, 5J92
 - radio, using column-switching technique, 1J92
 - relationship between response functions and performance characteristics in, 6J38
 - relationships between temp.-programmed and isothermal Kovats indices in, 1C3
 - retardation by 'phase soaking' in, 5J88, 5J89
 - review, 6J54
 - sample introduction in, 6J73B
 - attachment of linear inlet tubing for, to coiled glass-capillary column, 4J63
 - capillary inlet for, for use with packed columns, 6J57
 - injector and splitter system for, for use with silica WCOT columns, 5J80
 - micro valves for, 1J68
 - review, 5J78
 - stop - flow technique for split, 2J55
 - syringe-needle guide and septum purge for use in, 2J54
 - terminology used in description of, 2J53
 - with cold introduction and temp.-programmed vaporisation, 1J70
 - sampling of vapours and gases in standard glass bottles for, 5J79
 - solute focusing in, using solvent effect, 5J81
 - solubility factors for solutes and stationary phases for, 1J82
 - standards for use in, 2J4
 - stationary phases for, characterisation, evaluation and *in situ* cross-linking of polar, 1J79
 - chemically bonded polymetallophenylsiloxanes as, 2J65
 - cholesteryl cinnamate deriv. as, 2J66
 - cross-linked methylphenylsilicones as, 1J77
 - crystal hydrates as, 1J75, 2J64
 - cyanosilicones as, 1J76
 - detmn. of limiting values of Kovats indices for, 1J80, 1J81
 - effect on retention - b.p. relationship of polarity of, 6J62
 - immobilisation of vinylated OV-17 and OV-1701, 4J68
 - liquid crystals as, 1C58, 6J59, 6J60
 - for use at high temp., 1C57
 - optimisation via adjustment of composition of mixed, 4J66
 - polar porous copolymers as, 1J74
 - polycaprolactam as, 2J63
 - polyoxyethylene, 5J86
 - porous glassy carbon as, 1J23
 - purification of OV-17, by supercritical-fluid fractionation, 4J69
 - pyrolysis - g.c. study of capping of octadecylsilane, 6J58
 - radiation-induced *in situ* polymerisation of, 5J87
 - thermally pre-treated magnesium oxide and magnesium carbonate as, 4J64
 - use of very thick coating films of, 4J67
 - temp.-programme optimisation in, 6J63
 - 'total sample' capillary technique for, 6J55
 - trends in capillary and packed-column, 1J20
 - use of cryogenic on-column and pre-column focusing in, 2J57
 - using double-oven capillary instruments and coupling piece for monitoring detection after pre-sepn., 1J85
 - with use of large-sample on-column injection with bonded-phase capillary columns, 2C11
- Chromatography, gel-permeation, apparatus for, semi-continuous counter-current simulated moving-bed, 4J49**
- axial dispersion detmn. and correction in polymer analysis by, 4J50
 - columns for, flexible fused-silica micro-packed, 1J29
 - computer-assisted data acquisition and analysis for, 5A31
 - computerised correction of zone broadening in, 1A25
 - concn. and temp. effects in, 5J62
 - detectors for, densim., 1C15
 - differential refractom. and photodiffusom., 2J39
 - problems connected with use of several, 2J38
 - small-angle laser photom. and continuous viscom., 2J40
 - elution-vol. measurement in, 5J63
 - evaluation of pore sizes and distribution in silica gels by inverse, 5J61
 - high-performance, of biol. products, 1D2
 - solvent-delivery systems for, 1J57
 - measurement of dead vol. between concurrent detectors in, 1J58
 - polymer characterisation by, 6A3C
 - stationary phases for, bead-shaped starch gels as, 4J48
 - Fractogel TSK as, 6J40
 - poly(vinylpyrrolidone)-treated silica as, 2J37
 - use of Apple II Plus microcomputer in, 2J41
- Chromatography, ion, applications of, in environmental analysis, 4A1C**
- automatic dialysing - injection system for use in, 2J43
 - behaviour of cations in non-suppressed anion, 6B10
 - chemical effects in conductivity detection in, 4J52
 - clean-up technique for samples containing high-level intermediates prior to, 5B2
 - comparison of detectors for use in, 3J38
 - dynamically coated columns for, 6B20

Chromatography, ion—continued

- reviews, 1J62, 6J43
- sepn. of anions by high-performance, 5B3
- sources of non-linearity in conductom. detectors for, 6J45
- system for micro-column, with hollow-fibre suppressor, 5J64
- temp. fluctuations in non-suppressed, 3J37
- use of u.v. absorbance detection in detmn. of inorg. anions by, 5B22
- with pre-concn. by Donnan dialysis, 6J44
- Chromatography, ion-exchange**, high-performance, using high-content org.-modifier mobile phase, 6J31
- solvent-delivery systems for, 1J57
- stationary phases for, see *Ion exchange, materials for*
- Chromatography, liquid**, affinity technique for, detmn. of amino-groups on supports for, 3J36
- immunoabsorbents for use in, based on agarose - polyaldehyde micro-sphere beads, 2J42
- on Fractogel TSK, 6J40
- centrifugal technique for, review, 2J14
- column-end effects and pressure consumption in, 2J33
- columns for, flat square, 4J51
- counter-current techniques for, instrumentation and applications for, review, 5J23
- review, 5J20
- coupled with a.a.s., review, 2J74
- coupled with m.s., 6A7C
- capillary interface for direct liquid introduction in, 5J55
- desolvation chamber coupled to interface for, 5J53
- effects of pressure, temp. and solvent composition in direct liquid-introduction, 3J34
- fractional-sampling interface for, with ^{252}Cf fission fragment-induced ionisation, 5J54
- jet-separator-based interface for, 3J27
- moving-belt interface for, for electron, chemical and fast-ion-bombardment ionisation, 3J30
- problems of interfacing in, review, 5J50
- review of studies with moving-belt interfaces by, 3J26
- system for, 1J50
- with direct liquid introduction and negative-ion chemical ionisation, 5J52
- ultrasonic device for spraying soln. into m.s. vacuum system in, 5J51
- detection limits in, 2A2C
- detectors for, differential refractom., 5J46
- electrochem., review, 4J43
- microcomputer-based temp.-corrected permittivity, 4J45
- normal pulse voltamm., 5J58
- performance of, review, 1J14
- reaction, evaluation and comparison of, 1J55
- use of sequential differential, 5J45
- voltamm., with double-polarisation-pulse and semi-differential scanning, 2J36
- efficiency enhancement in micellar, 6J30
- fraction collection in, automatic device for, 4J37
- hydrodynamic technique for, of macromolecules in open micro-capillary tubes, 5J25
- ion-pair distribution, review, 2D62
- length - time and capacity-ratio optimisation in, 4J24
- methods for detmn. of inorg. ions in soln., review, 2B1
- mobile phases for, classification of multi-solvent, 2J28
- dependence of selectivity and resolution on composition of binary, 2J30
- non-synchronous flow-through coil - planet centrifuge for use in, 5J24
- preparative, column dimensions and working conditions for, 1J24
- reversed-phase, detmn. of column vol. in, from elution data for deuterated compounds, 5J39
- effects of stationary and mobile phases on retention of homologous series in, 2J26
- importance of dead vol. in optimisation of sepn. in, 4J36
- interfacial tension effects of non-ionic surfactants in, 5J43
- prediction of retention behaviour in, 3J24
- selection of mixed mobile phases for, 1J43
- stationary-phase effects in, 1J36
- review, 3J16
- sample injection in, evaluation of loop and pump systems for, 5J29
- stationary phases for, chemically bonded cyclodextrin silica as, 5J35
- hydroxylated silica gels as, 1J42
- porous carbons as, review, 5J34
- AgNO_3 -impregnated silica gel as, 4J31
- Na aluminosilicate as, 4J30
- sorbents with charge-transfer ability as, review, 4J28
- supercritical-fluid technique for, coupled with m.s., 3J35
- using standard g.c. equipment, 4J71
- temp. effects on absorbance stability in, 1J48
- using multi-phase eluents, 1J45
- , **high-performance**, anion screening by, 6J24
- apparatus for, automated, having multiple detectors, 2A2C
- automated semi-preparative, 2J18
- coupled multi-column, 4D233
- incorporating ICP detector system, 4J41
- applications of, in clinical analysis, review, 4D1
- in detmn. of radiochem. purity, 6A2C

Chromatography, liquid, high-performance, applications of—continued

- in pharmaceutical and biomedical analysis, review, 6E1
- automated sample clean-up in, using column-switching techniques, review, 5J27
- automatic device for injection and multiple column switching in, 5J30
- column fittings without ferrules for, 4J25
- columns for, characterisation and performances of micro-, 5J32
- estimation of performance of, in terms of relaxation time, 2J24
- flexible fused-silica micro-packed, 1J29
- larger-diam., used with small-particle packings, 5J41
- microbore, 2J19
- open parallel-plate ('ribbon'), 1J30
- optimisation and evaluation of packed capillary, 1J32
- packed micro glass capillary, 4J27
- slurry packing of high-efficiency, 5J33
- stainless-steel and radially compressed, 2J20
- use of linked, 2J17
- computer-controlled gradient programmer for, 3J21
- continuous-gradient elution in micro, 2J32
- correlation, principle and applications of, 1J27
- coupled with chemical-ionisation m.s., 1J167
- coupled with FT i.r. spectrometry, comparison of columns for analysis of non-polar materials by, 5J49
- system for, 5J48, 6J36
- coupled with i.r. absorption spectrometry, system for, 6J35
- coupled with m.s., 6A7C
- band-broadening phenomena in use of moving-belt interface in, 3J29
- comparison of micro-bore columns for use in, 3J28
- for analysis of involatile samples, 3J25
- forensic applications of, 2C127
- off-line system for, 5J56
- m.s. - m.s. study of chemical-ionisation reagent plasma produced in, 3J33
- review, 2J135
- sample introduction into chemical-ionisation source for, via fused-silica capillary tube, 3J31
- studies of liquid-chrom. - m.s. reagents by, 3J32
- system for, with ^{252}Cf -fission-fragment-induced ionisation, 3J113
- thermospray interface for, 4J42
- detectors for, computer-aided multi-channel, 1J50
- conductivity, with μl cell vol., 4J44
- dielectrom., 1J53
- differential refractom., influence of temp. on response of, 6J32
- dual-working-electrode electrochem., 5J57
- for thiols and disulphides, 3D8
- electrochem., 1J52
- deoxygenation of small samples for reductive-mode, 3J23
- electron-capture, interface for coupling of, 1J54
- for radiopharmaceuticals, 1E77
- ICP emission spectrometer as, 2J35
- for organometallic compounds, 6J33
- laser-based, review, 3J15
- linear photodiode array as multi-channel, 3J22
- modified Hall electrolytic-conductivity, specific for Cl, 5C10
- multi-wavelength u.v. - visible spectrophotometer as, 1J49
- optical, review, 4J38
- photom., at 185 nm, 1C110
- polarogr., 6J37
- post-column reaction systems for, for trace metals, 5B13
- for use with micro-bore columns, 1J56
- non-segmented flow, for use in miniaturised systems, 4J47
- review, 4J46
- rapid-scanning multi-channel, review, 4J39
- room-temp. phosphorim., 1C55
- u.v. multi-wavelength, 5J47
- with simult. measurement of fluorescence, two-photon photo-ionisation and photoacoustic effect, 6J34
- direct monitoring of reaction processes with, 5J59
- effect of pressure on solute diffusivity, solvent viscosity and solvent temp. in, 5J42
- effects of variations in flow rate in, 2J34
- equipment for, 1J26
- instrumentation for, and applications in food analysis of, review, 5F6
- ion-exchange, using high-content org.-modifier mobile phase, 6J31
- ligand-exchange, stable modified silicas for use in, 1J41
- mobile phases for, automatic optimisation of composition of, 6J28
- de-gassing of multi-component, 2J27
- effect of composition of, in retention of ionised solutes, 2J31
- graphical method for optimisation of binary, 2J29
- multi-channel integrator for, 5J22
- multiple linear-regression analysis of retention data in, 5C30
- optimisation of conditions in, 1A24
- review, 6A11
- optimisation of selectivity in, 2J25
- pressure-relief valve and gauge protector for, 2J16
- pulse dampener for, 5J44
- rank annihilation factor analysis of unresolved peaks in, 2A22, 5J60
- relation of retention time to spectrosc. bandwidth in, 4C35
- relationship between response functions and performance characteristics in, 6J38

Chromatography, liquid, high-performance—continued

- reversed-phase, effect of 'capping' of packing materials for, 6J26
 effect of particle size distribution of packing material in, 5J40
 faster analysis by, 1J37
 influence of eluent composition on column efficiency in, 6J29
 optimisation of sepn. conditions in, using complex solvent mixtures, 1J44
 use of LiNO_3 as test substance for detmn. of hold-up time in, 1J46
 reviews, 2J15, 3J17, 5J26
 sample introduction in, construction of valve for, 4J26
 device for use in quantitative cross-correlation studies at ultra-trace levels, 6J23
 nl system for use on micro-columns, 5J28
 with micro-syringes and with sampling valves, 1J28
 solvent-delivery systems for, 1J57
 stationary phases for, adsorption capacities and surface areas of modified silicas as, 5J37
 n-alkyltrichlorosilane-bonded macroporous silicas as, for protein sepn., 3J20
 alumina as, 6J25
 t-butylvalinamide bonded to silica gel as, for resolution of amino-acid enantiomers, 2J23, 4J34
 carbon as, review, 4J29
 characterisation of chemically modified silicas as, FT i.r. spectrom., 4J32
 chemically bonded chiral, 1J40
 chemically bonded multi-functional, 1J39
 chemically bonded octadecyl, bonded to Polish silica gels, 1J33
 chrysanthemic acid and its deriv. bonded to silica gel as, 5J36
 comparison of commercial chemically bonded, 1J38
 derivatised silicas as, 1J25
 iminodiacetate-modified silicas for use in ligand-exchange technique, 4J33
 Fe^{III} -loaded quinolin-8-ol silica gel as, 3J19
 monomeric and polymeric derivatisation of, 1J35
 (S)-1-(1-naphthyl)ethylamine bonded to silica gel as, for sepn. of enantiomers, 2J22
 phenyl-modified Kef-F as, 3J18
 poly(benzo-15-crown-5)- and bis(benzo-15-crown-5)-modified silicas as, 4B29
 porous glassy carbon as, 1J23
 pyrolysis - g.c. studies of modified silica gels used as, 5J38
 review of C_{18} bonded, 1J34
 size fractionation of t.l.c. silica gel for use as, 2J21
 urea deriv. of chiral amino-acids and amines as, 6J27
 zirconium phosphate deriv. as, 1J31
 trends in capillary and packed-column, 1J20
 unattended optimisation of sepn. in, 1J47
 use of guard columns in, 5J31
- Chromatography, paper, of metal ions, review, 1B5**
 review, 6J46
- Chromatography, thin-layer, adsorbents for, amino-bonded silicas as, 1J64**
 bonded-phase, 6J51
 formamide-impregnated silica as, 6J50
 apparatus for quantitative recovery of material from plates for, 4D213
 applications of, in clinical and environmental analysis, 3D320B
 applications of two-dimensional, review, 5J74
 centrifugal technique for, review, 5J20
 equations describing solvent motion and zone migration in circular, 3A24
 evaluation of chromatograms in, characterisation of scanning densitometer for, 5J76
 computer program for assessment of reflectance and transmission in, 1J65
 fluorescence scanning densitom., 2J50
 i.r. spectroph., 6J53
 with rapid-scanning multi-channel detectors, review, 4J39
 evaluation of chromatograms in radio -, review of instrumentation for, 2J51
 use of microcomputer in, 5J77
 with position-sensitive wire detectors, 6A2C
 high-performance technique for, on cyanoalkyl-bonded plates, 2J46
 pre-coated plates for, 5J76
 preparation of plates for reversed-phase, 2J47
 report of symposium on instrumental, 5A2
 improvement of resolution in, review, 2J48
 influence of development distance on resolution in, 2J49
 ion-pair distribution, review, 2D62
 mobile phases in, temp. effects on retention characteristics in use of high-boiling, 4J60
 multi-channel integrator for, 5J22
 of inorg. substances, review, 4B7
 optimisation of procedures for, review, 1J18
 over-pressured technique for, 6J52
 quantitative detmn. of org. compounds by, 4C2
 review, 6J46
 sample application in, device for, avoiding need for repeated spotting, 2D63

Chromene, 2,2-dimethyl-, derivatives, g.l.c., g.l.c. - m.s. and t.l.c. studies of, 5D95

Chromite (mineral), analysis, review, 4B142

detmn. of noble metals in, by charged-particle activation, 3B12

Chromium, concn. from sea-water, on quinolin-8-ol-bonded polymer supports, 5H49

of Cr^{III} from water, by co-pptn. - flotation, 4H38

detection, reaction for, 5B21

detmn., by a.a.s., 5J111, 6B132

comparison of methods for, 3B11

sources of error in, 6B23

by catalytic - spectroph. method, 3B120

by flow-injection - spectroph. method, 2B128

effect of on-line complex-formation kinetics in, 6B131

by intra-cavity a.a.s., 4B162

by n.a.a., with pre-concn. by co-pptn., 1B10

by XRF, gelatin-film calibration standard for, 1J98

colorim., 6B128

coulom., 3B17

emission spectrom., 4J86, 6J94

using electrothermal carbon-cup vaporisation, 4B16

polarogr., 5B18

potentiom., ion-selective electrode for, 6J145

spectroph., 2B17, 6B129, 6B130

with electron micro-probe, 1J99

in aluminium, spectrogr., 2B53

in aluminium or aluminium alloys, emission spectrom., 5B66

in biol. materials, by XRF, 1F4

emission spectrom., 2D33

standards for use in, 2D34

spectrogr., 5D12

in biol. tissues, emission spectrom., 2D35

in blood, by a.a.s., 1D47

by automated Zeeman a.a.s., 6D18

in brine, by a.a.s. or a.e.s., 4B152

in environmental materials, spectrogr., 3B121

in fats or fatty oils, by a.a.s., 4F67

in fertilisers, emission spectrom., 2G5

in foods, differential pulse polarogr., 3F3, 5F1

in fresh-water particulate matter, by a.a.s., 5H54

in liquid samples, spectrogr., 2J108

in liver tissue, by a.a.s., 3D18

in magnesium, spectrogr., 3B44

in minerals, ores or rocks, spectrogr., 3B121

in nickel alloys, emission spectrom., 2B157

in petroleum or petroleum products, by XRF, 2C76

in plants, by a.a.s., 6D17

in presence of Ce, Ti and U, ion-exchange chrom. - spectrogr., 5B19

in sea-water, by a.a.s., 6H46

by isotope dilution - g.c. of trifluoroacetylacetate - m.s., 3H86

by isotope dilution - m.s., 6H39

by n.a.a., with pre-concn. by column electrolysis, 5H55

in sediments, by acid extraction - a.a.s., 4H41

in sediments or sewage sludge, by a.a.s., interferences in, 3H44

in serpentine, with electron micro-probe, 5B176

in sewage sludge, by a.a.s., sample pre-treatment for, 4H89

by XRF, 3H93

in silicates, by lithium borate fusion - a.a.s., 4B10

spectrogr., 1B107

in steel, Auger-electron spectrom., 3B140

by flow-injection - a.a.s. methods, 1J117, 2J99

emission spectrom., 5J126

proton-induced prompt-photon spectrom., 5A4C

spectrogr., in flowing gas atmosphere, 3B137, 3B138, 3B139

in tungsten, by proton activation, 4B147

in uranium, emission spectrom., 1B95

in urine, by a.a.s., 4D39, 4D40

in waste water, emission spectrom., 1H88

in water, by a.a.s., using stabilised-temp. platform furnace, 1H47

with pre-concn. by co-pptn., 2H44

by PIXE, 1H46

differential pulse polarogr., 3F3

emission spectrom., using computer-controlled monochromator, 2H47

review, 3H67

in Zircaloy, emission spectrom., 4B114

of C in plating films of, laser micro-spectrosc., 6B134

of Cr^{III} and Cr^{VI} in dextrose soln. or urine, by selective sorption - emission spectrom., 2D58

of Cr^{VI} in water or waste water, by co-pptn. with PbSO_4 - a.a.s., 1H69

of different chemical forms of, in water, by n.a.a., with pre-concn. by co-pptn., 5H77

of distribution of, in alloys, by laser irradiation - XRF, 2B146

of Fe in, by a.a.s., 6B133

of thickness of layers of, by XRF, 2B126

of H_2O -sol. and total Cr^{VI} in welding fume, inter-laboratory study of, 2B127

gel-chrom. study of Cr^{VI} and hydrolysed Cr^{III} in aq. soln., 2B125

ion-exchange study of, 6B14

Chromium—continued

- selective sorption of, on chelating resins containing hydrazide groups, 1B139
- sepn. from other elements, ion-exchange chrom., 5B16, 6B15
- from Ti, ion-exchange chrom., 5B109, 6B106, 6B107
- from W, by t.l.c., 6B110
- of Cr^{VI} from Cr^{III} , by ion exchange, 1J59
- sepn. and speciation of Cr^{III} and Cr^{VI} in water, by selective sorption on cellulose, 5H51
- , **arenetricarbonyl-**, sepn. of Sb or of Bi complexes of, by h.p.l.c., 3C59
- Chromium, reagents for**, 2'-bromo-4',5'-dihydroxyazobenzene-4-sulphonic acid Na salt, 6B130
- 3-(2-carboxyphenylazo)-6-(*m*-tolylazo)chromotropic acid, 6B128
- chromethylpyrazol, 3B121
- chrompyrazol I, 3B121
- 1,5-diphenylcarbazine, 6B131
- EDTA - riboflavin, 2B17
- phenylarsenazo, 6B129
- KI, 5B21
- tiron, 5B19
- Chromium alloys**, see also *Incoloy 800H*
- detmn. of Ce and La in, spectroph., 2B66
- , **Cr - Fe - Ni**, detmn. of elements in, by m.s., 1B170
- Chromium complexes**, bisaquobis(malonato)- and bisaquobis(oxalato)-, as acid - base indicators, 4A11
- with benzoylacetone or trifluoroacetylacetone, detmn. in presence of related compounds, by t.l.c. - densitom., 5B17
- with β -diketones, sepn. of geometric isomers of, by h.p.l.c., 5C27
- with SCN^- and H_2O , analysis of mixtures of, ion-exchange chrom., 4B141
- with trifluoroacetylacetone, effect of ligand doping on g.c. of, 2C44
- Chromium(III) phosphate**, detmn. of radiochem. purity of [^{32}P]-, paper chrom., 6E60
- Chromium sulphide**, comparison of Auger-electron and X-ray photoelectron spectrom. studies of, 4B13
- Chromosomes**, analysis, by automatic image analysis, 4A21
- Chromotropic acid**, (2-arsenophenylazo)-3-(4-bromophenylazo)-*p*-Bromoarsenazo
- Chronoamperometry**, computerised system for, on μs time scale, 3A31
- Chromopotentiometry, stripping**, comparison of electrodes for, and effect of deposition potential in, 3J152
- Chrysanthemic acid esters**, sepn. of enantiomers of, by g.l.c., 1C46
- Chrysene**, sepn. from other PAH, by g.c., 1C58
- Chrysene derivatives**, identn. in sediments, Shpol'skii-effect fluorim., 6H55
- sepn. and detmn. in car-exhaust gases, by g.l.c., 5C54
- , **methyl**, sepn., by g.c., 1C57
- Chrysophanol**, detection, by t.l.c., 5E18
- Chrysotile**, detmn. in air-borne dust, by X-ray diffraction, interferences in, 1H27
- in dust from road-vehicle brake drums, X-ray diffractom., 3B169
- Chymopapain**, see under *Enzymes, specific*
- Chymotrypsin**, see under *Enzymes, specific*
- Chymotrypsinogen**, sepn. from other proteins, by h.p.l.c., 3D234
- Cibenzoline**, detmn. in blood plasma or urine, by h.p.l.c., 5D64
- Cichorium intybus**, detmn. of inulin in roots of, paper chrom. - spectroph., 1E47
- Cidial**, see *Phenthoate*
- Cigarette smoke**, see *Tobacco smoke*
- Cigarettes**, classification, by g.c. analysis of org. phase of smoke, with use of pattern recognition, 6D11
- prediction of tar yield of, pyrolysis instrument for, 1D4
- Ciguatoxin**, detmn. in fish tissues, by r.i.a., 4D254
- Cimetidine**, detmn. in blood or urine, by h.p.l.c., 1D90
- in blood plasma, by h.p.l.c., 4D114, 5D70
- in blood plasma or urine, by h.p.l.c., 1D89
- in blood serum, by h.p.l.c., 2D93
- in pharmaceutical preparations, spectroph., 4E65
- Cinchona alkaloids**, sepn., by h.p.l.c., 4E10, 5E14, 6E14
- sepn. and detmn. in leaves, by h.p.l.c., 4E9
- Cinchonidine**, sepn. from other cinchona alkaloids, by h.p.l.c., 4E10
- Cinchonine**, sepn. from other cinchona alkaloids, by h.p.l.c., 4E10
- Cinerins**, detmn. of I and II, in pyrethrum extracts, by g.l.c., 4G23
- Cinnamic acid**, sepn. from hippuric acid, paper chrom., 6J47
- , **trans-hydroxy-**, partition-paper-chrom. study of, 4C31
- Cinnamic acid derivatives**, detmn. in forage plants, 5A2C
- sepn. of *trans-*, by t.l.c., 3C49
- , **hydroxy-**, isolation and detmn. in vegetable extracts, by h.p.l.c., 5G5
- sepn. and identn. in wine, by h.p.l.c., 5F69
- Ciprofenone**, detmn. in pharmaceutical preparations, by h.p.l.c., 1E42
- automated, 3E4
- Cisplatin**, detmn. in blood plasma, by h.p.l.c., 4D119
- in urine, by h.p.l.c., 5D74
- by h.p.l.c. - a.a.s., 4D120
- of metabolites of, in blood plasma or urine, by h.p.l.c., 6D121
- Citral**, detmn. in head-space vapours of treated potatoes, by g.c., 3G28
- Citrate**, detmn., indirect spectroph., 3C32
- in grapefruit juice or orange juice, by h.p.l.c. or isotachopheresis, 1F41
- sepn. from other anions, by isotachopheresis, 3J45

- Citric acid**, detection in wine, by isotachopheresis, 6F68
- detmn., fluorim., 2C32
- in coffee, by isotachopheresis, 3F42
- in lactic acid-fermented vegetables, by h.p.l.c., 5F51
- in sauerkraut brine, by isotachopheresis, 2F36
- in sugar-refinery products, by g.l.c. of butyl ester, 4F21
- identn. in heroin powder, by use of ketonuria test paper, 1E22
- **sodium salt**, detmn. in multi-electrolyte soln., spectroph., 3E80
- Citrinin**, detmn. in cereals, by h.p.l.c., 4G5
- in mouldy foods, by t.l.c. - fluorim., 2F18
- Citronellol**, sepn. of enantiomers of α - and β -, by h.p.l.c., 1C18
- Citrulline**, detection in lymphoblastoid cultures, by h.p.l.c. of phthalaldehyde deriv., 5D143
- detmn. in blood plasma, spectroph., 2D217
- Citrus fruit**, identn. and detmn. of bergapton in, by h.p.l.c., 3F38
- sepn. and identn. of carotenoids in, by h.p.l.c., 3F39
- Claviceps**, sepn. and detmn. of ergot alkaloids in individual sclerotium of, by t.l.c. - fluorodensitom., 1E23
- Clavulanic acid**, detmn. in blood serum or urine, by h.p.l.c. of imidazole deriv., 6D60
- Clay**, detmn. of elements in, by PIXE, 2B3
- of elements in minerals of, with electron micro-probe, 6B181
- of P in, emission spectrom., 6B196
- thermoanalytical study of, 1B190
- Clenbuterol**, detection in urine, by t.l.c. - tandem m.s., 4D51
- detmn., by enzyme immunoassay, 6D105
- Clinical analysis**, acceptable limits for precision and accuracy in, 3D3
- applications of deriv. spectroscopy in, review, 3D6
- of ion-pair extraction and h.p.l.c. in, review, 6E1
- of t.l.c. in, 3D320B
- basic statistics for quality control in, review, 2D1
- calculation of 'reference change' for comparing consecutive measurements in, 2D27
- computer-based graphical displays in, review, 3D5
- concept of 'robustness' in, for emergency test selection, 3D2
- data handling and network analysis in automated, 1D1
- design and manufacture of instruments for automated, 6D5
- drug interferences in, review, 1D8
- dry-reagent chemistries in, review, 4D3
- enzymes used in, review, 4D2
- evaluation of Ektachem 400 Analyzer for use in, 3D17
- evaluation of Hitachi 705 automatic analyser for, 4D10, 4D11
- ion-selective electrodes in, review, 6D6
- methods for monitoring temp. in spectroph. analysers for, 5D1
- modelling component combinations by means of attention function scores in, 6D1
- problems of trace analysis in, review, 5A7
- re-use of disposable rotors in centrifugal analysers for, 6D4
- review, 4A2
- sensitive and high-resolution techniques in, review, 4D1
- statistical concepts and vocabulary in, review, 5A14
- sufficiency of single quality-control material for, 4D4
- use of g.l.c. with frequency-pulse-modulated electron-capture detection in diagnosis of infectious diseases, review, 6D3
- validation of new methods in, 3D1
- variance reduction in processes in, by digital filtering, 5D1
- Clioquinol**, detmn. in blood plasma, with its metabolites, by g.c. of acetyl deriv. - m.s., 4D116
- in creams, by h.p.l.c., 2E1
- Clobazam**, sepn. from related compounds, by h.p.l.c., 6E41
- Clomipramine**, detmn. in blood plasma, by h.p.l.c., 6D95
- with its metabolite, by h.p.l.c., 4D102
- Clonazepam**, detmn. in blood plasma, by g.l.c., 6D75
- by h.p.l.c., 2D80
- in blood serum, by h.p.l.c., 6D74
- sepn. from related compounds, by h.p.l.c., 1D71
- of metabolites of, and studies of its microsomal metabolism, by h.p.l.c., 4D81
- Clonidine hydrochloride**, detmn. in pharmaceutical preparations, by h.p.l.c., 1E68
- Clorazepic acid potassium salt**, detmn. in blood plasma, with its metabolite, by h.p.l.c., 5D57
- Clotrimazole**, detmn., by two-phase titration with Mettler DK18 phototitrator, 5E42
- Clover**, detmn. of Mo in, comparison of spectroph. methods for, 6D42
- Cloxacillin**, detmn., cathodic-stripping voltamm., 2E23
- **sodium**, detmn. in pharmaceutical preparations, a.c. polarogr., 1E34
- Coal**, analysis, by thermal methods, 2A4C
- of hydrocarbons in high-boiling and non-distillable liquids derived from, by h.p.l.c. - field-ionisation m.s., 4C61, 4C62
- of liquids derived from, by t.l.c. on coated rods, 3C88
- of non-polar fractions of liquefaction products of, by h.p.l.c. - FT i.r. spectrom., 5J49
- of soln. derived from, by n.m.r., 6C60
- analysis, and analysis of solids derived therefrom, by ^{13}C n.m.r., 4C60
- characterisation of high-boiling fractions of products of liquefaction of, by m.s., review, 4C46
- of liquids derived from, 2C85
- of org. compounds eluted from, scheme for, 2C84

Coal—continued

- detmn. of ash, Ca and Fe in, by XRF and X-ray scattering, 6B185
 of C in, by proton activation, 6B186
 of elements in, by a.a.s., fusion procedure for, 2B168
 by O-bomb combustion - ion chrom., 2B167
 by XRF, review, 4B172
 comparison of methods for, 1B191
 emission spectrom., with pre-concn. on poly(dithiocarbamate) resin, 5B179
 of elements in brown, spectrogr., choice of standard sample in, 2B169
 of elements in Nigerian, by n.a.a., 2B170
 of F in, by combustion - potentiom., with ion-selective electrode, 3H6
 of Ge in, spectrogr., 5B98
 of Mo in, comparison of methods for, 6D42
 of PAH in distillation residues from, 5C52
 of pyrite in, by a.a.s., 1B197
 of quaternary-C-, methine-, methylene- and methyl-group abundances in liquids derived from, by ^{13}C n.m.r., 5C51
 of S speciation in, by XRF, 6B187
 of transferable H in liquids derived from, by m.s., 2C86
 fluorescence-microsc. study of components of, 1A1C
 fractionation of liquids derived from, by h.p.l.c., 6C61
 laser micro-probe mass analysis studies of, 4B209
 m.s. - m.s. study of amino- and aza-polycyclic aromatic compounds in liquids derived from, 1C88
 n.m.r. studies of, review, 4C47
 pyrolysis - g.c. studies of Australian, 5C63, 5C64
 reviews of research on carbonisation of, 1C87, 5C62
 sample preparation of, for i.r.-spectrosc. examination, 3C87
 sepn. of alkylphenols in liquids derived from, liquid chrom., 5C35
 of constituents of aq. extracts of, by h.p.l.c., 2J32
 speciation of intermediate polar material in solvents derived from, by h.p.l.c. - FT i.r. spectrom., 5C65
- Coal ash**, see also *Fly ash*
 detmn. of F in, by combustion - potentiom., with ion-selective electrode, 3H6
- Coal gas**, detmn. of aromatic hydrocarbons in, by g.c., 6C60
 of thiols in, potentiom., portable instrument for, 4C44
- Coal tar**, analysis, by g.c., 6C63
- Coamid**, detmn., absorption, 6E61
- Coatings**, analysis, review, 4A2
 of org., by scanning electron microscopy - XRF, 6A3C
 of temp.-resistant polymeric, for cooking apparatus, review, 6F18
 applications of surface-characterisation methods in studies of, review, 4B2
 detmn. of thickness and element concn. of alloy, by XRF, 2B151
 of Th and U in, by secondary-ion m.s., 1B204
- Cobalamins**, detmn., specificity of ligand-assay methods for, 3D285
 in blood plasma, extraction method for, 4D301
 in blood plasma or erythrocytes, liquid chrom. - t.l.c. - bio-autogr., 4D302
- Cyano-**, detmn., by chromato - a.a.s., 2J74
 use of serum-containing standards for, 1D248
 in blood serum, assessment of protein-binding radioassay kit for, 4D303
 causes of falsely low results in isotope-dilution methods for, 5D195
 comparison of radiochem. kits for, 1D249
 evaluation of 'boil' and 'no-boil' kits for, 3D287
 'improved' commercial kits for, 3D286
 secondary-ion m.s. study of, 3D13
 sepn. from myoglobin, by h.p.l.c., 5D157
- Cobalt**, co-floitation of, on metal hydroxides, 4B20
 concn. from $\text{Ca}(\text{NO}_3)_2$ medium, by selective sorption, 2B16
 from sea-water, on quinolin-8-ol-bonded polymer supports, 5H49
 from water, by chelating ion exchange, 1H44
 by co-pptn. - floitation, 4H38
 detection, by pptn. in viscous media, 3B18
 colour reactions for, 1B26, 2B12, 4A10
 reaction for, 5B21
 detmn., a.c. polarogr., 5B153
 amperom., 1B65
 anodic-stripping voltamm., 5B153
 by a.a.s., 5J111
 suppression of Cl^- interference in, 4B15
 with collection on anion-exchanger-loaded silica gel, 1J59
 by catalytic - sonic chemiluminescence method, 6B157
 by catalytic - spectrogr. method, 4B191
 by kinetic - fluorim. method, 4B18
 by n.a.a., 1B9
 complexom., indicator for, 4B188
 semi-automated, 4J16
 continuous-flow spectrogr., 4B164
 dual-wavelength photom., 1B24
 electrogravim., removal of Cl^- for, 5B154
 emission spectrom., 4J86
 using electrothermal carbon-cup vaporisation, 1J127
 linear-potential-sweep chronoamperom., 5B153
 oscillopolarogr., 6B159

Cobalt, determination—continued

- potentiom., with Hg-selective electrode, 1B176
 radiom., 5B152
 spectrogr., 2B153, 3A9, 3B146, 3B147, 3B148, 4B19, 4B39, 4B190, 4B191, 5B149, 5B151
 using sub-stoichiometric reagent, 2B152
 with collection by co-pptn. with micro-cryst. naphthalene, 4B189
 with collection of clinoquinol complex in molten naphthalene, 1B171
 with photochemical oxidation of Co complex, 5B150
 voltamm., 6B160
 in biol. materials, emission spectrom., 2D33
 in biol. tissues, emission spectrom., 2D35
 in brine, by a.a.s. or a.e.s., 4B152
 in coal or fuel oil, emission spectrom., with pre-concn. on poly(dithiocarbamate) resin, 5B179
 in Co - Cu - Ni alloys, complexom. or spectrogr., 6B164
 in Co - Gd thin films, by XRF, 1B173
 in complexes, by ligand exchange - a.a.s., 6B158
 in environmental materials, by h.p.l.c. of chelate complexes, 2H43
 in fly ash reference material, 5A18
 in glass, extraction chrom. - a.a.s., 1B200
 in hair, by photon activation, 1D19
 in liquid samples, spectrogr., 2J108
 in liver tissue, by a.a.s., 3D18
 in magnesium, spectrogr., 3B44
 in mixtures of organometallic compounds, by h.p.l.c. - a.e.s., 6J33
 in nickel alloys, emission spectrom., 2B157
 in plants, by a.a.s., 6D17
 in presence of Cd, Cu, Mn and Ni, ion chrom., with pre-concn. by Donnan dialysis, 6J44
 of Fe, by differential kinetic - spectrogr. method, 4B163
 of Fe and Ni, by h.p.l.c. of 1-(2-pyridylazo)-2-naphthol complexes, 1B174
 by t.l.c. - radiom., 5B12
 of Ni, by flow-injection - kinetic - spectrogr. method, 2B154
 voltamm., 3B153
 of Ni and other metals, differential pulse polarogr., 4D44
 of Ni and Na, by a.a.s., 1J120
 of other elements, by h.p.l.c. - spectrogr., 5B13
 by n.a.a., 5B8
 by t.l.c. of anthrilyglyoxal 4-diethylaminoanil complexes, 1B20
 in quartz, by n.a.a., 6B92
 in sea-water, by a.a.s., extraction method for, 2H45
 in sediments, acid-extraction - a.a.s. method unsuitable for, 4H41
 in sewage sludge, by XRF, 3H93
 in sherry-type wines, by a.a.s., wet-ashing method for, 5F66
 in silicates, by lithium borate fusion - a.a.s., 4B10
 spectrogr., 1B107
 in soil, extraction method for, 1G9
 in steel, proton-induced prompt-photon spectrom., 5A4C
 in urine, comparison of photom. methods for, 6D45
 emission spectrom., 2D36
 in water, by a.a.s., using stabilised-temp. platform furnace, 1H47
 with pre-concn. by co-pptn., 2H44
 emission spectrom., using computer-controlled monochromator, 2H47
 in whisky, by a.a.s., 4F63
 of different chemical forms of, in beverages, by selective sorption - differential pulse polarogr., 2F38
 of distribution of, in alloys, by laser irradiation - XRF, 2B146
 of speciation of, in beverages or foods, review of sepn. procedures used for, 6F2
 effect on chemiluminescence of luminol in absence of H_2O_2 , 6A21
 extraction-chrom. study of, 6B21
 ion-exchange studies of, 4B6, 6B14, 6B30
 sepn. from Cs and Ce, ion-exchange chrom., 5J67
 from Cu, by ion exchange, 5J65
 from Cu or Hg, with xanthated Sephadex, 1B22
 from Fe or Zr, liquid chrom., 2B16
 from other elements, by t.l.c., 1B23
 ion chrom., 1B16
 ion-exchange chrom., 5B16, 6B15, 6B163
 of ^{60}Co from other fission-product elements, liquid chrom., 6B22
 of Co^{II} and Co^{III} , magneto-paper electroph., 3B15
 solvent extraction of, as 2,2'-bipyridyl - ethylxanthate complex, 3B153
 with decanoic acid in CHCl_3 , 5B23
 with 7-(dec-1-enyl)quinolin-8-ol, 3B149
 with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - trioctylphosphine oxide, 1H45
 with quinoline-8-carbodithioic acid, 3A14
 with Na bis-(2-ethylhexyl) phosphate, 1B38
 with sulphonamide chelating agents, 5B11
 with tetrachlorodithioketones, 1B17
 with thenoyltrifluoroacetone in presence of organophosphorus compounds, 6B161
- Cobalt, reagents for**, N-(2-benzimidazolylimino)benzamidoxime - 1,10-phenanthroline, 4B19
 1,5-bis(di-2-pyridylmethylene)thiocarbonylhydrazide, 4A10
 3-(5-bromo-2-pyridylazo)chromotropic acid, 3A9

Cobalt, reagents for—continued

- 5'-chloro-2',4'-dihydroxypropionophenone oxime, 4B192
 4-(5-chloro-2-pyridylazo)-*m*-phenylenediamine, 6D45
 clioquinol, 1B171
 5-dimethylamino-2-nitrosophenol, 4B164
 diphenylguanidine (or hexadecylpyridinium chloride) - sulpharsazen, 3B148
 hexadecylpyridinium chloride - phenylfluorone, 4B190
 4-hydroxy-3-(2-pyridylazo)naphthalene-1-sulphonic acid, 3B146
 2-(2-mercaptoacetamido)benzenesulphonate, 2B153
 morpholine-4-carbodithioic acid K salt, 4B189
 2-(4-nitrobenzoyl)acetanilide - SCN⁻, 5B151
 3-nitrosochromotropic acid, 6B164
 1-nitroso-2-naphthol, 6D45
 nitroso-R salt, 6D45
 1-phenylbutane-1,3-dione 3-(4-benzyl-6-phenylpyridazin-3-yl)hydrazonone, 4B39
 KSCN, 5B21
 1-(2-pyridylazo)-2-naphthol, 2B152
 4-(2-pyridylazo)resorcinol, 2B154, 3B146
 5,10,15,20-tetrakis-(4-sulphophenyl)porphine Cd complex, 3B147
 [Hg(SCN)₄]²⁻, 3B18
 4-(2-thiazolylazo)resorcinol, 3B146
 thiophene-2-carboxaldehyde 2-quinolylhydrazone, 2B12
 thiosemicarbazones of hydroxybenzophenones, 1B26
 3-(1,2,4-triazol-3-ylazo)toluene-2,6-diamine, 5B149
- Cobalt alloys**, detmn. of Ce and La in, spectroph., 2B66
 of Fe and V in, amperom. or potentiom., 4B130
 of Se in, by co-pptn. with As - a.s., 1B179
- , **Co - Cu - Ni**, detmn. of elements in, complexom. or spectroph., 6B164
- , **Co - Gd**, detmn. of elements in thin films of, by XRF, 1B173
- , **Co - Fe - Ni**, detmn. of Th and U in, by secondary-ion m.s., 1B204
- Cobalt complexes**, detmn. of Co in, by ligand exchange - a.s., 6B158
 sepn. of penta-ammine, by h.p.l.c., 6B162
 with benzoylacetone or trifluoroacetylacetone, detmn. in presence of related compounds, by t.l.c. - densitom., 5B17
 with bromobenzothiazolylazo-dyes, 4A9
- Cobalt sulphate**, detmn. of Pb in, spectroph., 5B103
- Cocaine**, detection and detmn., colour reaction for, 4E13
 detmn. in hair, by r.i.a., 2D66
 h.p.l.c. study of stability of soln. of, 3E14
- Cocoa**, detmn. of As in foods containing, by a.s., 5F23
 of Cd in, by a.s., 4F5
 of caffeine and theobromine in instant mixes, by h.p.l.c., 6F52
 of carbohydrate, fat and protein in, near-i.r. reflectance spectroph., 1F40
 of purine alkaloids in, by h.p.l.c., 3F43
 particle size analysis, by laser-light scattering, 4F2
- Cocoa butter**, detection and detmn. of substitutes of, by h.p.l.c., 4F26
 sepn. and detmn. of triglycerides in, by h.p.l.c., 6F24
- Codeine**, detection in opium, by t.l.c., 5E11
 detmn. in blood, stomach contents or urine, by g.c., 6D55
 in blood plasma, by h.p.l.c., 6D56
 in ethylmorphine hydrochloride, by t.l.c., 2E7
 in pharmaceutical preparations, u.v. spectroph., 4E39
 in presence of amidopyrine, ephedrine and quinine by isotachophoresis, 2E2
 in saliva, by g.l.c., 3D56
 in urine, by t.l.c., 4D53
 sepn. from other opium alkaloids, by h.p.l.c., 1E18, 2E6
- **phosphate**, stability of aq. soln. of, 2E8
- Co-dergocrine**, detmn. in blood plasma, by r.i.a., 4D55
- Cod-liver oil**, detmn. of cholecalciferol, ergocalciferol and α -tocopherol in, by h.p.l.c., 3F53
- Coenzymes**, analysis, by chromat. - a.s., 2J74
- **A**, detection, fluorogenic reagent for, 2C10
- Co-extraction**, review, 3A3
- Coffee**, analysis of acids in, by isotachophoresis, 3F42
 detmn. of atracylinogen and its glycosides in, by t.l.c. - remission spectroph., 5F59
 of benzo[a]pyrene in roasted, and in by-products of its roasting, by h.p.l.c., 1F39
 of caffeine in decaffeinated, by h.p.l.c., 5F60
 of caffeine and theobromine in, by h.p.l.c., 6F52
 of element speciation in, review of sepn. procedures used for, 6F2
 of Ni speciation in, 1F3
 of purine alkaloids and trigonelline in, by h.p.l.c., 3F43
 of reducing sugars and sucrose in, by h.p.l.c., 3F6
 isolation and identn. of source of astringent flavour in, by h.p.l.c., 1F38
 sampling of green, BSI specifications for apparatus and procedure for, 5F58
 sepn. and detmn. of organometallic complexes in, by selective sorption - differential pulse polarogr., 2F38
- Coffee-bean oil**, detmn. of PAH in, by g.l.c. - m.s., 2F40
- Coins**, detmn. of elements in, emission spectrom., 6J94
 of Ni in 'silver', paper chrom. - densitom., 4B193
 of Zn in orichalcum, by n.a.a., 6B39
- Coke**, detmn. of Cl and V in, by n.a.a., 3C73
 of elements in, by XRF, sample preparation for, 6B189

- Cold-rolling oils**, sepn. and detmn. of fatty alcohols and esters and of oxidation inhibitors in, by h.p.l.c., 6C58
- Collagen**, detection in comminuted meat products, histochem., 5F37
 sepn. of peptides in tryptic hydrolysates of, by h.p.l.c., 3D220
- Colloids**, particle size analysis, turbidim., 6J175
- Colorimetry**, based on Cerenkov radiation colour quenching, 6J74
 external integrating sphere for use in, 5J96
- Colterol**, detmn. in blood plasma or urine, by h.p.l.c., 5D67
- Colza oil**, see *Rapeseed oil*
- Computers**, applications of, in absorption spectrophotometry, 3B63, 4A25, 4E64, 4J93, 5J105, 5J106
 in AMICA automated analyser, 6J16, 6J17, 6J18
 in analysis in iron and steel industry, review, 2B145
 in analysis of sugar-factory products, 5F21
 in analytical chemistry, 2A31B, 5A32B
 in a.s., 3A26, 4B214, 6J92
 in atomic spectroscopy, 1A28
 in Auger-electron spectrometry, 3J92
 in automatic image analysis, 4A21
 in calculations of consensus values and weighting factors, 2A8
 in calorim. titrimetry, 6J172
 in characterisation of gas sensors, 5J8
 in chemistry, report of conference on, 6A1
 in chemometrics and analytical chemistry, 6A25
 in chronoamperometry, 3A31
 in clinical analysis, 5D1
 in continuous-flow analysis, 1J11, 2D30, 3J12
 in deriv. spectroscopy, review, 3D6
 in differential pulse anodic-stripping voltammetry, 4J140
 in differential pulse polarography, 1J197, 1J198
 in electron micro-probe analysis, 2B103
 in e.s.r. spectrometry, 6J110
 in emission spectroscopy, 2H47, 2J122, 3B3, 5J130, 6J93, 6J97, 6J98
 in fluorimetry, 1A27, 1J133, 3J87
 in fluorescence studies of analytical laser plumes, 6J100
 in forensic science, review, 5A27
 in γ -spectrometry, 3A30, 4J126, 6J122, 6J123
 in g.c., 2C124, 3J48, 3J60, 4J75, 5C93, 6J66
 in g.c. - emission spectroscopy, 2J71
 in g.c. - i.r. spectroscopy - m.s., 6A27
 in g.c. - m.s., 2G12, 3A25, 3J59, 3J99
 in gel electrophoresis, 4D238
 in gel-permeation chromatography, 1A25, 2J41
 in h.p.l.c., 1A24, 1J47, 1J50, 3J21, 3J22, 4D182, 5J60, 6J22
 in hydrocarbon analysis, 6C53
 in identn. of complex org. compounds, 6C1
 in identn. of low-mol.-wt. org. substances from their pyrograms, 2A21
 in identn. of powdered vegetable materials, 1E15
 in identn. of waste-water components, 2H94
 in immunoassay, 2D8, 4D5
 in i.r. absorption spectrophotometry, 1A27, 1A29, 2J128, 2J130, 3A27, 4A1C, 4J95, 5C84, 6C3, 6J101
 in i.r. spectrometry - m.s., 6A27
 in isotachophoresis, 3J45, 5J74
 in isotope-dilution g.c. - m.s., 1J182
 in isotope dilution - m.s., 1D143
 in liquid chromatography, 4C37, 4J45
 in m.s., 2A30, 2C91, 2J151, 2J152, 2J153, 3A28, 3J97, 3J98, 6A7C, 6A28
 in micro-probe analysis, report of conference on, 1A1
 in Mossbauer spectrometry, 2A29
 in n.a.a., 3A29, 5A4C, 6B8
 in n.m.r. spectrometry, 4J98, 6A26, 6C32
 in optimisation of analytical procedures, review, 1J18
 in particle size analysis, 5A5C
 in polarography, 2J181
 in potentiom. stripping analysis, 2H48, 4J141
 in potentiom. titrimetry, 4H72
 in radio t.l.c., 5J77
 in size-exclusion chromatography, 5A31
 in spectroscopy, 4J78, 4J79
 in thermal wave imaging spectrometry, 4J96
 in thermochemical studies using a.s., 1J118
 in t.l.c., 1J65, 5A2C
 in titrimetry, 3J149
 in u.v. absorption spectrophotometry, 1A27
 in voltammetry, 6J167
 in X-ray diffractometry, 2J93, 6B191
 in XRF, 1A26, 5B190
- command language for chrom. data processing, 4A26
 control of equipment and data-handling by, review, 5A25
 data storage and communication system for several multi-channel analysers, 6J20
 data-acquisition system for use with ion-selective electrodes and other sensors, 6J159
 databank on sepn. of elements by solvent extraction, 2A20
 data-collection device for use with Technicon AutoAnalyzer system, 6J19
 data-file structure of ICP/5500 software, 2A28

Computers—continued

- enhancement of spectroscopy by (new journal), 6J120
- errors arising in calculation of calibration graphs using, 5A23
- graphical displays in clinical laboratory, review, 3D5
- hierarchically structured systems for analytical chemistry, 1J19, 4J22
- information-retrieval system for selection of optimum analytical procedures, 3A23
- laboratory information management systems, 2A27
- laboratory languages, 5A26
- micro-, multiplexer interface for, 3J2
- unit for analysis of Pu γ -spectra, 4B103
- micro - mini - mainframe network for use in analytical laboratory, 2J12
- modelling of experimental data with interactive graphics, 5A30
- multi-purpose data analysis program, 1A23
- organisation of data-handling system, 1A21
- program for spectrosc. structure recognition of complex molecules, 4A27
- standards for systems incorporating, 1A33B
- system for field data analysis, 2A25
- three-dimensional analysis of external quality assessment results using, 5A28
- treatment of systems that include polynuclear species, 5A29
- Concrete**, BSI procedure for sampling of fresh, 5B193
- detmn. of elements in, by n.a.a., 5B194
- of H₂O in, by low-energy γ -ray back-scattering, 3B181
- Condiments**, BSI method for detmn. of filth in, 5F57
- Confectionery products**, see also *Chewing-gum*; *Chocolate*
- detection of carob flour in cocoa-based, by t.l.c., 4F25
- of geniposide in, by h.p.l.c. or t.l.c., 4F14
- detmn. of glucose in, enzymic, 6F23
- of sugars in, by h.p.l.c., 4F8
- Conferences and symposia, reports of**, Analytical Instrumentation for the Technical Control of Water Refining and Effluent Purification (1981), Roetgen, 6A6
- Analytical Techniques in Environmental Chemistry 2 (1981), Barcelona, 2A2
- Chromatography in Biochemistry, Medicine and Environmental Research, 1 (1981), Venice, 6A5
- Computer Applications in Chemistry (1982), Washington, DC, 6A1
- Continuous Sampling (Effluent, Outfall, Drinking Water) in respect of Organic and Inorganic Components in the Trace Range (1982), Roetgen, 6A6
- Eighth International Symposium on Prevention of Occupational Accidents and Diseases in the Chemical Industry (1982), Frankfurt am Main, 2A1
- Euroanalysis IV (1981), Espoo, 4A1
- Free Hormones in Blood: Proceedings of Advanced Course on Free Hormone Assays and Neuropeptides (1982), Venice, 6A4
- 1982 IEEE Conference on the Application of Accelerators in Research and Industry, Denton, TX, 5A4
- Industrial Applications of Surface Analysis (1981), New York, 3A1
- Instrumental High Performance Thin-layer Chromatography (1982), Interlaken, 5A2
- International Symposium on Electroanalysis in Biomedical, Environmental and Industrial Sciences (1983), Cardiff, 3A2
- Ion Formation from Organic Solids (1982), Muenster, 5A3
- Mass Spectrometry Advances 1982, Vienna, 6A7
- Microbeam analysis 1982: 17th Annual Conference of the Microbeam Analysis Society (1982), Washington, DC, 1A1
- Particle Size Analysis 1981, Loughborough, 5A5
- Platinum, Gold, and Other Chemotherapeutic Agents (1982), Las Vegas, 5A1
- Pollution: Causes, Effects and Control (1982), Lancaster, 2A3
- Polymer Characterization (1981), Atlanta, 6A3
- Seventh International Conference on Thermal Analysis (1982), Kingston, Ont., 2A4
- Synthesis and Applications of Isotopically Labelled Compounds (1982), Kansas City, 6A2
- Continuous-flow analysis**, enzyme preparations in unsegmented, review, 1J16
- microcomputer data-acquisition and cumulative reporting system for, 2D30
- microcomputer system for peak recognition, data processing and representation in, 3J12
- non-segmented rapid-flow system for, 4J20
- optimal speed as function of system performance in, 1J11
- Convallotoxin**, detmn. of degree of decomposition of, i.r. spectroph., 6E21
- Convicine**, detmn. in legumes, enzymic - spectroph., 3F40
- Copolyesters**, analysis, by methanolysis - g.l.c., 2C120
- Copolymers**, analysis of blends of, automated thermogravim. - titrim., 2A4C
- of decomposition products of siloxane-containing, by g.l.c., 3C117
- detmn. of acrylamide- and acrylic acid-containing, polarogr., 3C110
- of migration of, from polymeric coatings, review, 6F18
- identn. of carboxylic acids in acrylic, by alkylation - pyrolysis - g.l.c. or i.r. spectroph., 3C111
- , **acrylonitrile - butadiene**, detmn. of acrylonitrile content of xanthate-terminate, by pyrolysis - g.l.c., 2C117

Copolymers—continued

- , **acrylonitrile - styrene**, detmn. of composition distribution of, by t.l.c., 6C81
- , **butadiene - styrene**, detmn. of diphenylamine antioxidants in, spectroph., 1C124
- , **butyl acrylate - methyl methacrylate**, detmn. of gel content of latices of, size-exclusion chrom., 4C85
- , **divinyl ether - maleic anhydride**, detmn. in blood plasma or urine, by h.p.l.c., 3D123
- , **ethylene - vinyl acetate**, characterisation, gel chrom. - continuous viscom., 2C112
- detmn. of vinyl acetate in, i.r. spectrosc., 4C80
- review, 2C115
- , **ethylene - vinyl acetate - vinyl alcohol**, detmn. of vinyl alcohol in, i.r. spectrosc., 4C80
- , **ethylene - vinyl alcohol**, detmn. of vinyl alcohol in, i.r. spectrosc., 4C80
- , **methyl methacrylate - styrene**, analysis, gel chrom. - densim., 1C115
- Copovithane**, detmn. in blood plasma or urine, by h.p.l.c. of trinitro-benzenesulphonyl deriv. of hydrolysis product, 5D76
- Copper**, co-floitation of, on metal hydroxides, 4B20
- concn., by adsorption on mercury electrode, 6B33
- by complexation with diethylenetriamine or its N²-dodecyl deriv., 4B40
- on chelating fibrous sorbent, 5B39
- from sea-water, on quinolin-8-ol-bonded polymer supports, 5H49
- from Na acetate medium, by selective sorption, 2B16
- from water, by chelating ion exchange, 1H44
- by co-pptn. - floitation, 4H38
- on cellulose, 5H51
- detection, by pptn. in viscous media, 3B18
- by synchrotron-radiation XRF, 2J87
- colour reactions for, 1B26, 2B12, 3A11, 4A10
- reaction for, 5B21
- detmn., anodic-stripping voltamm., 1B37
- comparison of methods for, 2B10
- by a.a.s., 5J111
- comparison of methods for, 3B11
- extraction methods for, 2B26, 2B30, 3B30
- sample-introduction system for, 5J109
- sources of error in, 6B23
- suppression of Cl⁻ interference in, 4B15
- with automated sample pre-concn., 1B11
- with collection on anion-exchanger-loaded silica gel, 1J59
- by catalytic - spectroph. methods, 3B27, 5B24
- by chemiluminescence method, 4B38
- by flow-injection - amperom. method, 5B14
- by g.c. of 4,4'-(propane-1,2-diylidiamino)bis-(1,1,1-trifluoropent-3-en-2-one) complex, 1B12
- by n.a.a., with pre-concn. by co-pptn., 1B10
- by spectroph. titration, 2A17
- by XRF, 6B34
- colorim., 3B28
- complexom., 5B35
- indicators for, 2A17, 6B32
- semi-automated, 4J16
- with differential electrolytic potentiom. detection of end-point, 5B15
- electrogravim., removal of Cl⁻ for, 5B154
- emission spectrosc., effect of H₃PO₄ in, 4B11
- using electrothermal carbon-cup vaporisation, 1J127
- fluorim., 2B28
- gravim., 5B34
- photoacoustic spectrosc., with concn. by co-pptn. of quinolin-8-ol complex with naphthalene, 2B143
- photom., 2B19
- polarogr., 4B36
- potentiom., 2J186
- calibration of ion-selective electrode for, 2J168
- ion-selective electrodes for, 3B10, 3J134, 6J137
- with ion-selective electrode, 6J130
- spectrogr., with pre-concn. by ion exchange, 5B37
- spectroph., 1B13, 1B34, 1B35, 2B27, 2B29, 3A9, 3B29, 4B19, 4B36, 4B39, 5B36, 6B31, 6B32
- calibration method for, 6A16
- with collection by adsorption on micro-cryst. naphthalene, 3B9
- with extraction into molten naphthalene, 4B37
- stripping chronopotentiom., 3J152, 4B56
- stripping potentiom., 3J151
- automated, review, 4J141
- with electron micro-probe, 1J99
- in alloys, by XRF, 6B38
- in aluminium, spectrogr., 2B53
- in aluminium or aluminium alloys, by a.a.s., 1B72
- emission spectrosc., 5B66
- in aluminium alloys, by a.a.s., 3B60
- in barley seeds, by a.a.s., 1G3
- in beverages, by a.a.s., 4F56
- in biol. fluids, gel chrom. - emission spectrosc., 2D41

Copper, determination—continued

- in biol. materials, by XRF, 1F4
- differential pulse anodic-stripping voltamm., 4D23
- emission spectrom., 2D33
- matrix effects in, 1D20
- standards for use in, 2D34
- in biol. tissues, emission spectrom., 2D35
- comparison of sample-treatment procedures for, 6D15
- in blood serum, emission spectrom., effect of use of Vacutainer tubes in, 4D20
- with Cobas-Bio centrifugal analyser, 3D27
- in brass plating on steel wire or cord, by XRF, 5B40
- in brine, by a.a.s. or a.e.s., 4B152
- in cereals or flour, by XRF, 6F25
- in coal or fuel oil, emission spectrom., with pre-concn. on poly-(dithiocarbamate) resin, 5B179
- in Co - Cu - Ni alloys, complexom. or spectroph., 6B164
- in copper indium sulphide, by electro-deposition - titrim., 4B213
- in copper-plating soln., potentiom., with ion-selective electrode, 3B31
- in environmental materials, by h.p.l.c. of chelate complexes, 2H43
- in estuarine water, by a.a.s., 1H50
- in fats or fatty oils, by a.a.s., 4F67
- in fatty acid still-bottom residues, by a.e.s., 2C34
- in fertilisers, emission spectrom., 2G5
- in fly ash reference material, 5A18
- in foods, by a.a.s. or differential pulse polarogr., 5F1
- differential pulse polarogr., 3F3
- polarogr., 5F2
- in fresh-water particulate matter, by a.a.s., 5H54
- in glass, extraction chrom. - a.a.s., 1B200
- in graphite, emission spectrom., with pre-concn. on chelating resin, 2B87
- in grasses, by catalytic - potentiom. method, 3G20
- in halide matrices, by a.a.s., 5B20
- in human milk, by n.a.a., 6D21
- in industrial materials, anodic-stripping voltamm., 5B10
- in iron, by a.a.s., 4B175
- in lead, by n.a.a., 6B103
- emission spectrom., 2B100
- in liquid samples, spectrogr., 2J108
- in liver tissue, by a.a.s., 1D27, 3D18
- in lymph, by a.a.s., 4D24
- in magnesium, spectrogr., 3B44
- in marine samples, review, 4H39
- in mercury, voltamm., 5B62
- in milk, spectroph., 5F44
- in milk powder, by PIXE, 6F34
- in minerals, ores or rocks, emission spectrom., 4B165
- spectroph., 2B33
- in minerals, ores or rocks, or in their enrichment products, X-ray spectrosc., 5B38
- in mixtures of organometallic compounds, by h.p.l.c. - a.e.s., 6J33
- in neodymium oxide, spectroph., 1B81
- in nickel, anodic-stripping voltamm., 2B159
- in nickel alloys, emission spectrom., 2B157
- in org. compounds, by Schoniger combustion - potentiom., with ion-selective electrode, 3C13
- in petroleum or petroleum products, by a.a.s., 4C57
- by XRF, 2C76
- in pharmaceutical capsules, emission spectrom., 1E14
- in pharmaceutical raw materials and active compounds, voltamm., 3E1
- in plants, a.c. polarogr., 2D39
- by a.a.s., 6D17
- by h.p.l.c., 4D25
- by XRF, 6G1
- certified reference materials for, 6D14
- in presence of Bi, differential pulse polarogr., 5B119
- of Cd, Co, Mn and Ni, ion chrom., with pre-concn. by Donnan dialysis, 6J44
- of Ni, by automated h.p.l.c., 4H92
- gravim., 3B32
- of other elements, by h.p.l.c. - spectroph., 5B13
- by n.a.a., 5B8
- by t.l.c. of anthrylglyoxal 4-diethylaminoanil complexes, 1B20
- gravim., 6B16
- of Pd and Zn, by h.p.l.c. of porphyrin complexes, 2B8
- of Ti, differential pulse polarogr., 5B95
- of Zn, by t.l.c. - radiom., 5B12
- in sea-water, anodic-stripping voltamm., 4H45
- preparation of sample containers for, 2H42
- by a.a.s., extraction method for, 2H45
- interferences in, 1H51
- by co-pptn. with $Zr(OH)_4$ - square-wave polarogr., 2H49
- by isotope dilution - m.s., 6H39
- by n.a.a., with pre-concn. by column electrolysis, 5H55
- in sediments, by acid extraction - a.a.s., 4H41
- in sediments or sewage sludge, by a.a.s., interferences in, 3H44

Copper, determination—continued

- in sewage sludge, by a.a.s., 1H86
- sample pre-treatment for, 4H89
- by XRF, 3H93
- in sherry-type wines, by a.a.s., wet-ashing method for, 5F66
- in silicates, by lithium borate fusion - a.a.s., 4B10
- spectrogr., 1B107
- in sodium chloride, anodic-stripping voltamm., 4H45
- in soil, by sorption - XRF, 3G8
- extraction method for, 1G9
- in soil air, stripping potentiom., 3G9
- in steel, by a.a.s., 4B175
- emission spectrom., 5J126
- spectrogr., in flowing gas atmosphere, 3B139
- spectroph., 1B162
- extraction method for, 5B147
- u.v. spectroph., 1B36
- in tin, by a.a.s., 4B112
- in triuranium octaoxide, emission spectrom., 5B87
- in uranium, emission spectrom., 1B95
- in urine, by a.a.s., 1D26
- emission spectrom., 2D36
- in water, anodic-stripping voltamm., 4H45
- by a.a.s., 4B175
- using stabilised-temp. platform furnace, 1H47
- with pre-concn. by co-pptn., 2H44
- by a.e.s., 1H48
- by automated flow-injection - potentiom. stripping method, 2H48
- by PIXE, 1H46
- by XRF, with pre-concn. by pptn. of diethyldithiocarbamate, 5H53
- differential pulse polarogr., 3F3
- emission spectrom., using computer-controlled monochromator, 2H47
- in presence of humic acids, anodic-stripping voltamm., 1H53
- spectroph., 1H58, 1H60, 4H46
- with photochem. mineralisation, 5H57
- in wine, by a.a.s., 4F58
- in yttrium oxide, spectroph., 1B81
- in zinc, zinc chloride or zinc oxide, anodic-stripping voltamm., 4B58
- of Cu²⁺, with use of azo-compounds, review, 1A11
- of different chemical forms of, in beverages, by selective sorption - differential pulse polarogr., 2F38
- of Au in, spectroph., 1B45
- of Au, Pd and Ag in, by a.a.s., 1B41
- of lanthanoids in, flame photom. or spectroph., with sepn. by amalgam electrolysis, 6B36
- of Pb in, by m.s., 3J104
- of Se in, spectroph., 6B37
- of Ag in, spectrogr., 3B34
- of speciation of, in beverages or foods, review of sepn. procedures used for, 6F2
- in peas or soya beans, 1F3
- in water, d.c. and differential pulse polarogr., 6H37
- of Te in, by a.a.s., 2B123
- on grapes, by a.a.s., 2G19
- effect on chemiluminescence of luminol in absence of H_2O_2 , 6A21
- extraction-chrom. study of, 6B21
- ion-exchange study of, 6B14
- sepn. from Bi, Mo and V, ion-exchange chrom., 1J60
- from Cd, from Ca, Co, Pb and Ni, or from Pb and Hg, with xanthated Sephadex, 1B22
- from Cd and Ag, by t.l.c., 6B3
- from Cd and Zn or from Zr, liquid chrom., 2B16
- from Co, ion-exchange chrom., 6B163
- from Co and Ni, by selective pptn., 4B41
- from Co or Ni, by ion exchange, 5F65
- from Ga, ion-exchange chrom., 2B56
- from Au, by co-pptn. with $Fe(OH)_3$, 5B46
- from Pb, Ni and Ag, with cyclic amplification by successive pptn. - filtration, 6B12
- from Mg and Zn, by selective pptn. of quinolin-8-ol complexes, 4B3
- from Ni and Zn, ion-exchange chrom., 3J41
- from other elements, by t.l.c., 1B23, 3B13
- ion-exchange chrom., 5B16, 6B15
- from other transition metals, by ion exchange, 4B6
- from U, ion-exchange chrom., 3B79
- of Cu²⁺ and Cu⁺, magneto-paper electroph., 3B15
- solvent extraction of, as thiosulphate complex with 4-(5-nonyl)pyridine, 6B35
- with aq. systems from organometallic - halide extracts, 1B14
- with decanoic acid in $CHCl_3$, 5B23
- with *OO*-di-isopropyl *N*-thiobenzoylphosphoramidothioate, 1B36
- with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - trioctylphosphine oxide, 1H45
- with quinoline-8-carbodithioic acid, 3A14
- with Na bis-(2-ethylhexyl) phosphate, 1B38
- with sulphonamide chelating agents, 5B11
- with tetrachlorodithizonates, 1B17
- study of humic acid binding of, 3H47

Copper, reagents for, *N*-(2-benzimidazolylimino)benzamidoxime - 1,10-phenanthroline, 4B19
 benzoic acid - 1-(2-pyridylazo)-2-naphthol, 4H46
 1,5-bis(di-2-pyridylmethylene)thiocarbonyldiazide, 4A10
 1-(6-bromobenzo[thiazol-2-ylazo]-2-naphthol, 1H60
 bromophenol blue - 2-(2-quinolyl)benzo[*f*]quinoline, 1B35
 3-(5-bromo-2-pyridylazo)chromotropic acid, 3A9
N-(4-chlorophenyl)-*N*-(4-chloro-*o*-tolyl)-*N*'-hydroxybenzamidide hydrochloride, 3B32
 Chrome Azurol S, 1B13
 diethyldithiocarbamate, 2B33, 5B147
 5-(*p*-dimethylaminobenzylidene)-2-thiohydantoin, 2B19
 2-hydroxycyclohexanone thiosemicarbazone, 2B27
N-hydroxymandelamide, 6B31
N'-hydroxy-*N*'-*m*-tolyl-*N*-(2,6-xylyl)benzamidide hydrochloride, 5B34
 Pb diethyldithiocarbamate in presence of Benzon OA, 3B28
 5,5'-methylenebisresorcinic acid, 3A11
 4-methyltetrahydrobenzofuran[6,7-*b*]coumarin, 5B36
 morpholine-4-carbodiimide acid K salt, 3B9
 3-nitrosobenzochromotropic acid, 6B164
 phenanthrenequinone monosemicarbazone, 6B32
 1-phenylbutane-1,3-dione 3-(4-benzyl-6-phenylpyridazin-3-yl)hydrazide, 4B39
 picolinaldehyde guanyldiazide, 4B36
 KI, 5B21
 K₂CS₃, 6B16
 pseudopurpurine, 2B28
 pyridine deriv. - SCN⁻, 3B29
 1-(2-pyridylazo)-2-naphthol, 1B162
 4-(2-pyridylazo)resorcinol, 2B29
 quinolin-8-ol, 3B18
 4-(2-quinolylazo)phenol, 5F44
 tetraethylthiuram disulphide, 1H58
 5,10,15,20-tetrakis-(4-trimethylammonio)phenylporphine, 1B34, 1B81
 [Hg(SCN)₄]²⁻, 3B18
N-thiobenzoylphosphorothioic acid *OO*-di-isopropyl ester, 1B36
 thiophene-2-carboxaldehyde 2-quinolylhydrazide, 2B12
 thiosemicarbazones of hydroxybenzophenones, 1B26
 4,4,6-trimethyl-1-phenyl-(1*H*,4*H*)-pyrimidine-2-thiol, 4B37

Copper alloys, see also Brass; Bronze; Orichalcum
 detmn. of Cr in, potentiom., with ion-selective electrode, 6J145
 of Cu in, gravim., 5B34
 of elements in, by XRF, 6B38
 emission spectrom., are excitation as source of error in, 4B42
 with electron micro-probe, correction methods for, 2B9
 of Au in, spectroph., 5B42
 of In in, spectroph., 1B74
 of Fe in, liquid chrom. - spectroph., 3B131
 of Fe, Pb and Mn in, ion-exchange chrom. - a.a.s., 6B15
 of Pb in, by a.a.s., 3B96
 of Ni in, paper chrom. - densitom., 4B193
 polarogr., 5B18
 of P in, spectroph., 2B111
 —, Cu - Al - Fe - Mn, detmn. of Mn in, spectrogr., 6B143
 —, Cu - Co - Ni, detmn. of elements in, complexom. or spectroph., 6B164
 —, Cu - Ti, intermetallic phases in, 1A1C

Copper complexes, reversed-phase t.l.c. study of, 2C43
 with 4-benzoyl-3-methyl-1-phenylpyrazoline-5-thione, 1A9
 with bromobenzothiazolylazo-dyes, 4A9
 with catechol violet and hexadecyltrimethylammonium ions, 5B9
 with polyaminocarboxylic acids, sepn. and detmn., gel chrom. - electrochem., 5C26
 with 1,2,4-trihydroxyanthraquinone-3-carboxylic acid, 5A16

Copper indium sulphide, detmn. of elements in, by electro-deposition - titrim., 4B213

Copper ores, detmn. of Ir and Rh in concentrates from Ni-containing, stripping voltamm., 3B157
 of Pd in matte from Ni-containing, spectroph., 3B159
 of Ag in, spectroph., 6B41

Copper selenide, detmn. of Cu in, spectroph., 2B29

Copper sulphide, comparison of Auger-electron and X-ray photoelectron spectrom. studies of, 4B13

Coproporphyrinogen oxidase, see under *Enzymes, specific*

Coproporphyrins, detection in urine, by colour reaction, as screening test for lead poisoning, 2D263
 detmn. in urine, by h.p.l.c., 3D267, 4D275
 spectroph., 5D176
 sepn. and detmn. of I and III, in urine, by h.p.l.c., 2D262, 5D177

Coprostanol, detmn. in faeces, by g.l.c., 1D134
 sepn. from epicoprostanol, by t.l.c., 2D170

Coprostanone, detmn. in faeces, by g.l.c., 1D134

Coptis spp., detmn. of berberine in root of, by t.l.c. - spectroph., 1E26

Cordierite, detmn. of Fe in synthetic, from X-ray data, 1B157

Corn oil, see *Maize oil*

Corrosion, applications of surface-characterisation methods in studies of, review, 4B2

Corticosteroids, detmn., by h.p.l.c., comparison of detection systems for, 4I46
 in cosmetics, by h.p.l.c., 2C94
 in urine, by h.p.l.c. - fluorim., 5D115

Corticosteroids—continued

identn. in creams, by t.l.c., 5E6

Corticosterone, detmn. in blood plasma, by h.p.l.c., 3D72
 in blood serum, by g.l.c. of TMS deriv. or by h.p.l.c., 3D189
 by r.i.a., 1D144
 in presence of other C₂₁ steroids, by h.p.l.c., 1D142
 —, 18-hydroxy-, see *Pregn-4-ene-3,20-dione*, 11 β,18,21-trihydroxy-

Corticotrophin, detmn. in blood plasma, by r.i.a., elimination of interference in CIS-Sorin method for, 3D231

Cortisol, see *Hydrocortisone*

Cortisone, detmn. in biol. fluids, by h.p.l.c., 6D190
 in blood serum, by h.p.l.c. - fluorim., 6D191
 — acetate, detmn. in blood plasma, by h.p.l.c., 3D72

Corundum, detmn. of Ti in single crystals of, spectrogr., use of fluorination reactions for, 1B114

Cosmetics, analysis, methods for, 2C92
 of aroma of formulations of, by head-space g.c., 4C69
 of fatty acids, their esters and glycerides in, by t.l.c. on Chromarods, 2C93
 of raw materials for, review, 6C71
 detection of *N*-nitrosodihydroxyamine in, colour reaction for, 5C71
 detmn. of corticosteroids in, by h.p.l.c., 2C94
 of quinine in hair preparations, by h.p.l.c., 2E9
 of S in, by oxidation - ion chrom., 4C68
 of Versalide and its isomer in, by h.p.l.c. - g.l.c., 1C95
 of Zn in, comparison of methods for, 3C97
 external integrating sphere for use in quantitating small colour differences of, 5J96
 identn. and detmn. of antimicrobial agents in non-emulsified, 2C95

Costus speciosus, detmn. of diosgenin in rhizomes of, by t.l.c. - spectrogr., 1E39

Cotarnine chloride, detmn., spectroph., 1E1

Cotinine, detmn. in blood plasma, by g.l.c., 1D108

Cotton, detection of anionic and non-ionic surfactants on undyed, fluorim., 6C76
 of sugar deposits on, colour reaction for, 1C101
 of sugars in lint of, colorim., 2C106
 detmn. of gossypol in seeds, stems or roots of, by h.p.l.c., 1E46
 of lacinilene C 7-methyl ether in bracts of, liquid chrom., 5D96
 in dust of, by h.p.l.c., extraction methods for, 2C107
 of reducing sugars in, colorim., 1C102
 of sugar content of, enzymic - spectroph., 2C105
 use of fluorescent tracer in monitoring of dust of, in cotton-textile manufacturing, 6H58

Coulometry, applications of thin-layer reticulated-vitreous-carbon electrode in, 6J164
 review, 6J126

Coumarin, detmn. in nickel-plating soln., titrim., 2B160
 —, 3-[2-acetyl-1-(4-nitrophenyl)ethyl]-4-hydroxy-, see *Sincoumar*
 —, 4-diazomethyl-7-methoxy-, as fluorescent labelling reagent, 2C8
 —, 3-[1-(4-nitrophenyl)ethyl-2-propionyl]-4-hydroxy-, see *Nitrofarin*

Coumarin derivatives, detmn. in air-borne dust, by g.c. and g.c. - m.s., 4H26
 sepn. from anthocyanidins, anthocyanins and related substances, by h.p.l.c., 4D270
 sepn. and detmn., liquid chrom. - m.s., 1J51
 —, amino-, h.p.l.c. study of purity of dyes, 5C75

C-peptide, detmn., by r.i.a., review, 6D223
 metabolism and detmn., review, 2D231

Crataegus spp., identn. and detmn. of flavonoids in preparations of, comparison of methods for, 3E19

C-reactive protein, detmn. in blood serum, immunoturbidim., with micro-centrifugal analyser, 4D259

Creatine, detmn. in blood serum, multi-enzyme electrodes for, 2D204
 in muscle tissue, by bioluminescence method or fluorim., 4D13
 m.s. - m.s. study of, 1J173

— phosphate, detmn. in biol. tissues, with Bessman phosphate analyser, 6D12
 in muscle tissue, by bioluminescence method or fluorim., 4D13

Creatine kinase, see under *Enzymes, specific*

Creatinine, detmn., acceptable limits for precision and accuracy in, 3D3
 by continuous-flow analysis, data-acquisition and cumulative reporting system for, 2D30
 evaluation of Hitachi 705 analyser for, 4D11
 ketone interference in KDA kinetic method for, 4D200
 test for drug interferences in kit methods for, 2D23
 with Cobas-Bio centrifugal analyser, 2D20
 in blood plasma or urine, by h.p.l.c., 6D204, 6D262
 with use of enzyme reactor and NH₃ sensor probe, 3D208
 in blood serum, by h.p.l.c., 2D205
 by thin-film dual-slide enzymic - reflectance-spectroph. method, 4D198
 multi-enzyme electrodes for, 2D204
 spectroph., with IL 508 analyser, 3D207
 in blood serum or urine, by bioluminescence method, 5D122
 by flow-injection - spectroph. method, 6D205
 by h.p.l.c., 6D203
 in urine, by g.l.c. of methyl deriv., 5D121
 continuous-flow potentiom., with picrate-ion-selective electrode, 2D206
 in urine samples on filter-paper, spectroph., 1D160

- m*-Cresol, detmn. in skin washes, chrom. - colorim., 1D104
o-Cresol, detmn. in skin washes, chrom. - colorim., 1D104
 —, 4,6-dichloro-, detection in 2,4-D or 2,4-dichlorophenol, by h.p.l.c., 5G28
p-Cresol, detmn. in skin washes, chrom. - colorim., 1D104
 in streams, field technique for, 2H82
 —, 2,6-di-*t*-butyl-, detmn. in dairy products, by g.l.c., 4F50
 in fats or fatty oils, by BSI g.l.c. method, 5F74
 in lard or oil, collaborative study of h.p.l.c. method for, 5F74
 in soya-bean oil, by g.l.c., 4F76
 identn. in fats or fatty oils, by BSI t.l.c. method, 4F76
 Cresols, detmn., by n.m.r., 4C30
 in hardeners for epoxy-resins, by g.l.c., 4C83
 Cresotic acid, 5,5'-methylenedi-, as analytical reagent, 3A11
 Cromoglycic acid sodium salt, detmn. in blood plasma, by r.i.a., 2D101
 Crotoxin, sepn. of sub-units of, by h.p.l.c., 4D245
 Crown ethers, preparation and characterisation of bis(benzo-, and their use as extractants for alkali metals, 3A15
 Cryolite, detmn. in minerals, ores or rocks, potentiom., with F⁻-selective electrode, 5B175
 of P in, BSI a.a.s. method for, 5B71
 Cucumbers, detmn. of Br in, by g.l.c., as 2-bromoethanol, 5F50
 of diazomet in, by h.p.l.c., 3G39
 of triforine in, by t.l.c., 3G34
 Cumene, sepn. from other aromatic hydrocarbons, by h.p.l.c., use of multiple linear-regression analysis for calculation of conditions for, 5C30
 —, nitro-, detmn. in cumidine, polarogr., 6C39
 Cumidine, detmn. of nitrocumene in, polarogr., 6C39
 Curarine, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
 Curium, detmn. in spent nuclear fuels, by isotope dilution - m.s., 2B80
 sepn. from Am and Pu, by h.p.l.c., 3B83
 Cuscohygrine, detmn. in presence of other tropane alkaloids, by t.l.c. - densitom., 1E24
 Cutting fluids, detmn. of NO₂⁻ in, ion chrom., 4C59
 of oil content of dispersions of, BSI method for, 2C78
 Cyanide, detection in methionine, colour reaction for, 6E34
 detmn., by g.l.c., 4B106
 comparison of colorim. and titrim. methods for, 3B11
 electrochem., review, 1B100
 ion chrom., 1B19
 ISFET sensor for, 1J189
 in soya beans or their products, spectroph., 4G2
 in urine, by h.p.l.c., 1D39
 in waste water, portable test kit for, 2H93
 in water, by g.c., as cyanohydrin, 6B86
 coulom., 3H55
 Cyanuric chloride, detmn., differential pulse polarogr., 4C74
 Cycasin, detmn. in cycad leaves, by h.p.l.c., 3D152
 Cyclacillin, detmn. in presence of polymers and other degradation products, spectroph., 6E27
 Cyclamate, detmn. in foods, by isotachopheresis, 3F9
 Cyclandelate, detmn. of metabolite of, in free and conjugated forms in blood plasma or urine, by g.l.c., 3D110
 Cycleanine, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
 Cyclic-nucleotide phosphodiesterase, see under *Enzymes, specific*
 Cyclizine, detmn. in pharmaceutical preparations, by h.p.l.c., 5E10
 — hydrochloride, effect of temp. on u.v. spectrum of, 5E40
 Cycloalkanes, identn., by g.c., 3C1
 —, C₆ to C₁₁, detmn. in air, by g.l.c., 3H25
 Cyclobarbitone, detmn. in presence of butobarbitone and quinalbarbitone, by h.p.l.c., 5J47
 — calcium, detmn. in dimethyl sulphoxide medium, titrim., 5E4
 Cyclobutylpentale, dodecachloro-octahydro-1,3,4-metheno-, see *Mirex*
 γ-Cyclodextrin, detmn., spectroph., 3C27
 Cycloheptane, 1,1,4-trimethyl-, g.l.c. study of, 5C49
 Cyclohexane, isobutyl-, g.l.c. study of, 5C49
 —, phenyl-, detmn. of 1-phenylcyclohexyl hydroperoxide in mixtures from oxidation of, by g.l.c., 3C43
 Cyclohexanecarboxylic acid, 4-ethyl-, methyl ester, g.c. - m.s. study of *cis*- and *trans*-isomers of, 3C51
 Cyclohexanol, *cis*-3,3,5-trimethyl-, detmn. of free and conjugated, in blood plasma or urine, by g.l.c., 3D110
 Cyclohexanol derivatives, methyl, simulation of ¹³C n.m.r. spectra of, 6C32
 Cyclohexanone, 2-hydroxy-, thiosemicarbazone, as spectroph. reagent and detmn., potentiom., 2B27
 Cyclohexene, 4-vinyl-, sepn. of enantiomers of, by h.p.l.c., 1C18
 Cyclohexylamine, detmn. in water, BSI spectroph. method for, 5B30
 Cyclomaltotriose, see *γ*-Cyclodextrin
 Cyclopentadiene, detmn. in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113
 Cyclopentanone, (+)-3-methyl-, detmn., by g.c. - circular dichroism spectrom., 6J68
 Cyclophosphamide, detmn. in blood plasma, by t.l.c. - fluorim., 4E77
 Cyclopropane-1-carboxylic acid, 1-amino-, detmn., enzymic - spectroph., 5F52
 Cyclopropane-1-carboxylic acid—continued
 —, 3-(2,2-dichlorovinyl)-2,2-dimethyl-, esters, sepn. of enantiomers of, by g.l.c., 1C46
 Cyclosporin, detmn. in blood plasma, by h.p.l.c., 2D74, 3D67
 Cyclothiazide, sepn. from related compounds, by t.l.c., 2E63
 Cyhexatin, detmn. in powders, by h.p.l.c., 4G22
 Cystelic acid, detmn. in brain tissue, by h.p.l.c., 4D221
 Cystine, detection, fluorogenic reagent for, 2C10
 detmn., by chemiluminescence method, 1C8
 by kinetic - spectroph. method, 6C26
 spectroph., 5C7
 titrim., 6C27
 in fish meal, with cystine, by g.l.c., 5G18
 in hydrolysates of wool keratin, paper chrom., 1C104
 in presence of other mercapto-compounds, by h.p.l.c. of *N*-(4-anilino-phenyl)maleimide adducts, 4A8
 identn., i.r. spectrosc., 2E4
 sepn. from other thiols, gel electroph., 5D4
 —, *N*-acetyl-, see *Acetylcysteine*
 —, *S*-nitroso-, detmn. in cured meat, spectroph., 6F30
 Cystinesulphinic acid, detmn. in brain tissue, by h.p.l.c., 4D221
 Cystine, detmn., titrim., 6C27
 in fish meal, with cystine, by g.l.c., 5G18
 in hydrolysates of wool keratin, paper chrom., 1C104
 i.r. spectrum of, 1D22
 Cystine aminopeptidase, see under *Enzymes, specific*
 Cytarabine, detmn. in blood plasma, cerebrospinal fluid or urine, with its metabolite, by h.p.l.c., 6D69
 Cytidine, detection, by h.p.l.c. - m.s., 6D260
 detmn. in presence of other nucleosides, liquid chrom., 2D272
 — phosphates, cyclic 3',5'-mono-, detmn., by enzyme immunoassay, 1D239
 —, 5'-mono-, *N*-acetylneuraminic acid, detmn. in blood plasma, enzymic - radiom., 5D171
 Cytidine, deoxy-, phosphates, sepn., by h.p.l.c., 4D282
 —, 3-methyldeoxy-, detmn. in chemically modified DNA, by h.p.l.c., 4D279
 Cytidine monophosphate-sialic acid synthetase, see *Enzymes, specific*, acylneuraminase cytidyltransferase
 Cytochrome *c*, detection in h.p.l.c. eluate, Raman spectrom., 1D200
 sepn. from albumin, liquid chrom., 1D233
 from other proteins, by h.p.l.c., 3D234
 Cytochrome P-450, h.p.l.c. study of, 5D156
 Cytokinins, detmn. in sweet-potato plants, by t.l.c. - h.p.l.c. - g.l.c. of TMS deriv. - m.s., 4G14
 Cytosine, 5-methyl-, detmn. in DNA, by h.p.l.c., 5D189
 Cytosine arabinoside, see *Cytarabine*
- D**
- 2,4-D, detmn., by r.i.a., 3G30
 low-temp. phosphorim., 3G31
 in biol. materials, by h.p.l.c., 6D141
 in dermal exposure pads, hand rinses, sweat or urine, by g.l.c., 6G24
 in emulsifiable concentrates, by h.p.l.c., 5G27
 of phenol impurities in, by h.p.l.c., 5G28
 — esters, detmn. in soil, by g.l.c., 2G9
 DDE, detmn. in biol. materials, by g.c., 1D103
 in human milk, by g.l.c., 5D84
 in pesticide mixtures, by automated g.c. - m.s., 2G12
 in urine, by h.p.l.c. - n.a.a., 4D136
 identn. in fish tissues, liquid chrom. - g.c., 2F21
op'-DDT, identn. in fish tissues, liquid chrom. - g.c., 2F21
pp'-DDT, adsorption - desorption properties of, on graphitised carbon black, 4H86
 detmn., titrim., 4D17
 in human milk, by g.l.c., 5D84
 in pesticide mixtures, by automated g.c. - m.s., 2G12
 in soil, ring colorim., 6G29
 in urine, with its metabolites, by h.p.l.c. - n.a.a., 4D136
 estimation of detection limit of, after t.l.c., 3A4
 identn. in fish tissues, liquid chrom. - g.c., 2F21
 sepn. from PCB, liquid chrom., 4G18
 DEF, see *Phosphorothioic acid esters, SSS-tributyl*
 DL 11H-IT, see 1,2,4-Triazole, 3-(2-ethylphenyl)-5-(3-methoxyphenyl)-1H-
 DNA, see *Nucleic acids, deoxyribo-*
 DNOC, detmn. in formulations or technical product, collaborative study of, 3G41
 in water, differential pulse polarogr., 3H81
 identn. and detmn. in flour, fruit, hops, sugar-beet or vegetables, gel chrom. - g.l.c. of methyl ethers, 3G40
 D.t.a., see *Thermal analysis, differential*
 Dacarbazine, detmn. in blood or urine, with its metabolite, polarogr., 3D122
 Daconil, see *Chlorothalonil*

Dairy products, see also *Butter*; *Cheese*; *Yogurt*

- detmn. of BHA, BHT, and TBHQ in, by g.l.c., 4F50
 of α - and β -lactose in, by h.p.l.c., 2F29
 of mycotoxins in, review, 5F43
 of riboflavin in, by h.p.l.c., 4F42
 of taurine in, with amino-acid analyser, 1F27
 of 1,2,3,4-tetrahydro-6-hydroxy-1-methyl- β -carboline in, by g.c. of pentafluoropropionyl deriv. - m.s., 3F49
 of volatile fatty acids in, by steam-distillation - g.l.c., 1F26

Damilene, see *Amitriptyline***Dapsone**, detmn., colorim., 4E3**Datura**, detmn. of hyoscyne in leaves of, by t.l.c. - reflectance densitom., 6E15**Daunomycinone derivatives**, sepn., by t.l.c., 2E62**Daunorubicin, 4-demethoxy-**, detmn. in blood plasma, with its 13-dihydro-deriv., by h.p.l.c., 6D65**Dazomet**, detmn. in crops, by h.p.l.c., 3G39**Debrisoquine 4-hydroxylase**, see under *Enzymes, specific***Decane**, analysis of chlorination products of, by g.l.c., 6C10**Decanoic acid anhydride**, detmn. of free acid in, i.r. spectroph. or titrim., 1C30**Decanol, 1H, 1H, 2H, 2H-heptadecafluoro-**, characterisation of metabolites of, in blood plasma, by g.c., 2D103**Dec-2-ene**, sepn. of enantiomers of *cis*- and *trans*-, by h.p.l.c., 1C18**Dehydroascorbic acid**, detmn. in blood plasma, by derivatisation with *o*-phenylenediamine - h.p.l.c., 6D268
 in fruit or vegetables, by h.p.l.c., 2F32**Dehydroepiandrosterone**, see *Androst-5-en-17-one, 3 β -hydroxy-***Delta-HCH**, detmn. in water, by g.c. - m.s., 6H62**Deoxycholic acid**, detmn., by g.l.c., double derivatisation reaction for, 3D193**Deoxycorticosterone**, detmn. in presence of other C_{21} steroids, by h.p.l.c., 1D142**—, 1 β -hydroxy-**, detmn. in presence of other C_{21} steroids, by h.p.l.c., 1D142**Deoxycortone acetate**, detmn. in blood plasma, by h.p.l.c., 3D72**Deoxyribonuclease**, see under *Enzymes, specific***Deprenyl**, detection in urine, by t.l.c., 3D130**Desipramine**, detmn. in blood plasma, by g.l.c., 3D95

by h.p.l.c., 6D95

Detergents, see *Surfactants***Deuterium**, detmn., by charged-particle activation, 5B26

by g.c., 2B21

by m.s., comparison of single- and double-comparison techniques for, 5B27

in H-isotope mixtures, by m.s., instruments for, 2J141

in ^1H - ^2H mixtures, using vibrating-probe density meter, 2B22**Dexamethasone**, detmn. in biol. fluids, by stable-isotope dilution - m.s., 6A2C

in blood plasma, by r.i.a., 6D68

in presence of betamethasone, liquid chrom. - m.s., 2E30

in urine, by t.l.c., 5D41

Dexpanthenol, detmn., polarim., 1E44**Dextran**, detmn., enzyme electrode for, 4F20

in cane juice, sugar or syrup, spectroph., 1F14

Dextrin, detmn. of poly(vinyl alcohol) in, spectroph., 6C78**Dextrinase**, see *Enzymes, specific*, pullulanase**Dextropropoxyphene**, detmn. in blood plasma or urine, by g.l.c., 5D51

in urine, inactivation of lysozyme in EMIT-dau method for, 1D51

— hydrochloride, detmn., evaluation of techniques for, and t.l.c. study of purity of, 6E37

in pharmaceutical preparations, spectroph., 1E57

effect of temp. on u.v. spectrum of, 5E40

Diacetone alcohol, sepn. from related compounds, by g.l.c., 2C118**Di-allyl**, detmn. in water, by g.l.c., 5H92**Dialysis**, micro-cell for exchange or equilibrium, of small samples, 2J7**Diamines**, detmn. in urine, by t.l.c. of dansyl deriv. - fluorim., 6D196

identn., by t.l.c., 6D197

Diamorphine, analysis of illicit preparations of, by g.c., 5E12

detection and identn. of extenders in, 1E22

detmn. in presence of degradation products and of other drugs, by h.p.l.c., 1J50

profiling of illicit samples of, by g.l.c., 1E21

sepn. and identn. of contaminants and impurities in illicit, by h.p.l.c., 1E20

Diatricolic acid, detmn., potentiom., in dimethyl sulphoxide medium, 3E72**Diazepam**, detection and detmn. in blood serum, with EMIT-st system, 1D61

detmn. in blood plasma, saliva or urine, by g.l.c. 4D97

in blood serum, by radio-receptor binding assay, 4D98

in pharmaceutical preparations, by n.m.r., 1E56

in saliva, by g.l.c., 3D56

in urine, inactivation of lysozyme in EMIT-dau method for, 1D51

of content uniformity of preparations of, polarogr. or u.v. spectroph., 1E5

sepn. from aspirin, by ion-exchange t.l.c., 5E7

from related compounds, by h.p.l.c., 1D71, 6E41

—, desmethyl-, detmn. in blood serum, by radio-receptor binding assay, 4D98**Diazepam, desmethyl-** —continued

in liver tissue, by h.p.l.c. or r.i.a., 3F23

sepn. from related compounds, by h.p.l.c., 1D71

—, 3-hydroxy-, detmn. in urine, by g.l.c. of corresponding benzophenone, 1D72**Diazinon**, detmn., inter-laboratory study of, 5G25**Dibekacin**, detmn. in presence of other aminoglycosides, by h.p.l.c., 4D64**Dibenzanthracene derivatives**, detmn. of polyalkylated, in tobacco smoke, by g.c. - m.s., 5J85**Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo-5H-**, see *Oxcarbazepine***Dibenzoacridines**, sepn. from other aza-arenes and from each other, by t.l.c., 1C65**Dibenzo-p-dioxin, tetrachloro-**, detmn. in fish tissues, by g.c. - m.s. - m.s., 2H3

in water, 3H1

—, 1,2,3,4-tetrachloro-, detection, by triple-quadrupole m.s., 3D11**—, 2,3,7,8-tetrachloro-**, concn., comparison of techniques for, 2C56

detection, by triple-quadrupole m.s., 3D11

in soot from transformer explosion, by h.p.l.c. - g.c. - m.s., 3C86

detmn., by oxidative cleavage - g.c. - m.s., 2H5

in fish tissues, inter-laboratory study of, 6F32

in sediments, by g.l.c. or h.p.l.c., 1H84

in waste water, liquid chrom. - g.c. (or g.c. - m.s.), 2H107

Dibenzo-p-dioxin derivatives, chloro-, characterisation, by oxidative cleavage - g.c. - m.s., 2H5

detmn. in biol. tissues or soil, by r.i.a., review, 3G30

in soil or other solid environmental samples, by g.c. or g.c. - m.s., 2G4

in stack effluents from refuse-fired incinerator, by g.c. or g.c. - m.s., 2H36

g.c. - m.s. study of, 1C64

identn. and detmn. of isomeric, in emissions from wood combustion, liquid chrom. - g.c. - m.s., 1H38

sampling and detmn., with their precursors, in incineration process of urban wastes, 2A2C

Dibenzofuran, tetrachloro-, detection, by g.c. - m.s., g.c. - m.s. - m.s. or m.s. - m.s., 4D135**—, 2,3,7,8-tetrachloro-**, detection in soot from transformer explosion, by h.p.l.c. - g.c. - m.s., 3C86**Dibenzofuran derivatives, chloro-**, detmn. in soil or other solid environmental samples, by g.c. or g.c. - m.s., 2G4

in stack effluents from refuse-fired incinerator, by g.c. or g.c. - m.s., 2H36

sampling and detmn., with their precursors, in incineration process of urban wastes, 2A2C

synthesis and g.c. - m.s. sepn. and identn. of tetra-, 3C65

Dibenzo[a]pyrene, see *Benzo[*a*]pyrene***Dibenzoquinolines**, sepn. from other aza-arenes and from each other, by t.l.c., 1C65**Dibutylamine, N-nitroso-**, detmn., differential pulse polarogr., 4H74**Dicamba**, detmn. in emulsifiable concentrates, by h.p.l.c., 5G27**Dicentrine**, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15**Dichlorophenamide hydrochloride**, differentiation of polymorphs of, i.r. spectrom., 3E8**Dichloroprop esters**, detmn. in soil, by g.l.c., 2G9**Dichlorvos**, detmn. in fruit or vegetables, by t.l.c., 4G21

in rice, by g.c., 6G34

Dichlorzolate, detmn. in must or wine, by h.p.l.c., 3G35**Dichromate**, detmn., by flow-injection - spectroph. method, 2B128**Diclofenac sodium**, detmn. in blood plasma, by h.p.l.c., 4D95

identn., by t.l.c., and detmn., spectroph., 2E48

Diclofop-methyl, detmn. in water, by g.l.c., 5H92**Dicollinium iodide**, detmn., spectroph., 1E1**Dicyanoargentate**, detmn., potentiom., ion-selective electrode for, 6J138**Dicyanoaurate**, detmn., potentiom., ion-selective electrode for, 1J191, 2J169**Dieldrin**, detmn., inter-laboratory study of, 5G25

in human milk, by g.l.c., 5D84

in pesticide mixtures, by automated g.c. - m.s., 2G12

sepn. from PCB, liquid chrom., 4G18

Diesel fuel, detmn. of alkyl nitrates in, liquid chrom. - i.r. spectrom., 2C74

of bromine number of, coulom., 6C49

of CO_2 and O_2 dissolved in fractions of, by g.c., 4C56

of hydrocarbon group composition in, by h.p.l.c., 6C55

Dietary fibre, analysis of sugars in neutral detergent, from grasses, by h.p.l.c., 6G18

detmn. in foods, review, 3F1

in processed cereal foods, near-i.r. reflectance spectroph., 4F30

in vegetables, rapid method for, 2F34

of insol. and sol., enzymic - spectroph., 6F3

of neutral sugars in neutral detergent, by enzymic hydrolysis - h.p.l.c., 6F4

Diethanolamine, see *Ethanol, 2,2'-iminodi-***Diethylamine**, detmn. in air, with use of tubular film sampler, 4H24

in fish or meat products, by h.p.l.c., 1F20

in presence of aniline or pyridine deriv., non-aq. potentiom., 1C49

—, 2,2'-dichloro-, derivatives, detmn., chrom., i.r. spectroph. and potentiom., 1C35

Diethylamine—continued

- , *N*-nitroso, detmn., differential pulse polarogr., 4H74
- Difenzquat, detmn. in water, by h.p.l.c., 4H85
- Diflubenuron, detmn. in soil or water, by g.c., 6G35
- Diflunisal, detmn. in blood plasma, by g.l.c. of methyl deriv., 6D86
- Digitoxin, detmn., by r.i.a., preparation of antiserum for, 3D61
- Digoxin, detmn., by enzyme immunoassay, 1E31
- , by r.i.a., evaluation of kit for, 5D34
- , preparation of antiserum for, 3D61
- , standards provided with kits for, 4D60
- , in blood serum, by enzyme immunoassay with GeMSAEC centrifugal analyser, 4D59
- , by fluorescence polarisation immunoassay, 3D62
- , in pharmaceutical preparations, by h.p.l.c. or r.i.a., 6E22
- , in urine, by enzyme immunoassay, 2D67
- , acetyl-, detmn., in pharmaceutical preparations, by h.p.l.c. or t.l.c., 6E23
- Dihydralazine, detmn., polarogr., 3E60
- oscillopolarogr. study of, 3E59
- Diloxanide furoate, detmn. in pharmaceutical preparations, spectroph., 4E69
- Diltiazem, detmn. in blood plasma, by g.l.c., 3D107
- , with its metabolite, by h.p.l.c., 3D108
- , hydrochloride, sepn. and detmn. of optical isomers in, by h.p.l.c., 2E53
- Dimethylamine, detmn. in air, by head-space g.c., 6H25
- , with use of tubular film sampler, 4H24
- , in fish or meat products, by h.p.l.c., 1F20
- , in presence of NH_3 , hydrazine, methylhydrazines and H_2O , by g.l.c., 1B117
- , sepn. from methylamine, liquid chrom., 6J48
- , *N*-nitroso-, detection in beer, malt or spirits, by g.l.c., 1F49
- , detmn., in beer, cured meat or malt, review, 5F62
- , in waste water, by g.c., 2H99
- Dinaphthol[1,3-b:2',1'-d]thiophene derivatives, m.s. study of sulphoxides and sulphones, 6C48
- Dintolmide, detmn. in chicken tissues, by h.p.l.c., 4D117
- Dinobuton, detmn. in technical product, collaborative study of, 3G41
- , identn. and detmn. in flour, fruit, hops, sugar-beet or vegetables, gel chrom. - g.l.c. of methyl ethers, 3G40
- Dinoseb, detmn. in formulations or technical product, collaborative study of, 3G41
- , in potatoes, by g.l.c., 3G33
- , in water, differential pulse polarogr., 3H81
- , identn. and detmn. in flour, fruit, hops, sugar beet or vegetables, gel chrom. - g.l.c. of methyl ethers, 3G40
- , acetate, identn. and detmn. in flour, fruit, hops, sugar beet or vegetables, gel chrom. - g.l.c. of methyl ethers, 3G40
- Diosgenin, detmn. in *Costus speciosus* rhizomes, by t.l.c. - spectroph., 1E39
- Dioxacarb, detmn. in fruit or vegetables, by g.c., 6G31
- Dioxan, detmn. in air, with Organic Vapour Monitor, 1C4
- , of H_2O in, polarim., 5C50
- 1,3-Dioxan, 5-bromo-5-nitro-, identn. and detmn. in cosmetics, 2C95
- , 5-hydroxy-, detmn. in biol. tissues or blood plasma, by g.l.c. - selected-ion monitoring, 3D9
- 1,3-Dioxolan, 4-hydroxymethyl-, detmn. in biol. tissues or blood plasma, by g.l.c. - selected-ion monitoring, 3D9
- 1,3-Dioxolo[4,5-*g*]quinoline-7-carboxylic acid, 5-ethyl-5,8-dihydro-8-oxo-, see *Oxolinic acid*
- Dipentylamine, *N*-nitroso-, detmn., differential pulse polarogr., 4H74
- Dipeptidyl carboxypeptidase, see under *Enzymes*
- Diphenanthro[9,10-b:9',10'-d]thiophene derivatives, m.s. study of sulphoxides and sulphones, 6C48
- Diphenhydramine, chrom. methods for analysis of creams containing, 1E2
- , detmn. in creams, by h.p.l.c., 2E1
- , in pharmaceutical preparations, by h.p.l.c., 5E10
- , in saliva, by g.l.c., 3D56
- , hydrochloride, detmn., computer-aided u.v. spectroph., 4E64
- , in pharmaceutical preparations, iodim., 5E13
- , effect of temp. on u.v. spectrum of, 5E40
- Diphenylamine, detmn. in apple peel, by g.l.c., 1G31
- , in high explosive, by h.p.l.c., 6C89
- , 3-methoxy-, detmn. in methotrimiprazine maleate, by m.s., 2E45
- , *N*-nitroso-, detmn. in waste water, by g.c., 2H99
- Diphenylamine derivatives, detmn. in butadiene - styrene rubber, spectroph., 1C124
- , nitro-, detmn. in high explosive, by h.p.l.c., 6C89
- Diphenylpyrrolidine hydrochloride, effect of temp. on u.v. spectrum of, 5E40
- Dipicolinic acid, see *Pyridine-2,6-dicarboxylic acid*
- Diprophylamine, identn. in expectorant tablets, by t.l.c., 2E66
- , sepn. from papaverine hydrochloride and KI, by t.l.c., 1E10
- Dipropylamine, *N*-nitroso-, detmn. in waste water, by g.c., 2H99
- Dipyridamole, detmn. in pharmaceutical preparations, spectroph., 4E66
- Dipyrido[4,3-*b*][3,4-*f*]indole, 1-[3-(diethylamino)propylamino]-5-methyl-, detmn. in blood plasma or urine, by h.p.l.c., 5D77
- Dipyrrone, detmn. in pharmaceutical preparations, by n.m.r., 4E41
- , in suppositories, by thermal methods, 1E7
- , of metabolites of, in blood serum or urine, by t.l.c., 6D83
- Diquat, detmn. in urine, by h.p.l.c., 1D113

- Disaccharides, sepn. and detmn., by g.c. of TMS deriv., 1C25
- , in biol. fluids, liquid chrom., with post-column reaction with hexamminecopper(II), 2D108
- Disilane, hexachloro-, analysis, by chemical - spectrosc. method, 6B88
- Disopyramide, detmn. in blood plasma or blood serum, by h.p.l.c., 4D50
- , in blood plasma or urine, with its metabolite, by h.p.l.c., 6D107
- Disulfoton, detmn., by g.c., comparison of methods for, 4G20
- , identn. and detmn. in blood or urine, by g.c. - m.s., 2D106
- Disulphides, organic, characterisation, by photo-oxidation - m.s., 5H31
- , detection, by h.p.l.c., 3D8
- , alkyl, analysis of low-mol.-wt., by g.c., 6A5C
- , bis-(*OO*-dialkylidithiophosphoryl), detmn., spectroph., 2C46
- , di-(2-benzothiazolyl), detmn., stripping voltamm., 3C16
- , dimethyl, detmn. in urine, by head-space g.l.c., 6D3
- Disyston, see *Disulfoton*
- Dithane Z-78, see *Zineb*
- 1,2-Dithiole-3-thione, 4-(4-methoxyphenyl)-, see *Anethol dithiolethione*
- , 4-methyl-5-(2-pyrazinyl)-, see *Oltipraz*
- Dithiolethiones, detection, by h.p.l.c., 6C46
- Dithiols, identn. in gasoline, by g.c. - m.s., 3C78
- Dithionite, detmn. in presence of S^{2-} , SO_3^{2-} and $\text{S}_2\text{O}_3^{2-}$, titrim., 6B124
- Dithizone, concn., by adsorption on mercury electrode, 6B33
- Diuron, detection in water, fluorim., 3H82
- Dobutamine, detmn. in blood plasma, by h.p.l.c., 6D102
- , hydrochloride, detmn., spectroph., 3E62
- Dodecanamide derivatives, dimethylamino-, *N*-oxides, detmn., polarogr., 3C38
- Dodecanoic acid ω -(dimethylamino)alkyl esters, *N*-oxides, detmn., polarogr., 3C38
- Dolichol monophosphate glucose, sepn. from dolichol monophosphate mannose, by t.l.c., 6D182
- , mannose, sepn. from dolichol monophosphate glucose, by t.l.c., 6D182
- Dolomite, detmn. of carbonate-C in, by acid digestion - two-end-point titrim., 1G12
- Dopa, detmn. in biol. tissues, by h.p.l.c., 4D190
- , in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D155
- , sepn. from amino-acid mixtures, by t.l.c., 2D212
- , 5-S-cysteinyl-, detmn. in urine, by h.p.l.c., 3D225
- L-Dopa, see *Levodopa*
- Dopa decarboxylase, see *Enzymes, specific*, aromatic-L-amino-acid decarboxylase
- Dopacetic acid, see *Acetic acid*, 3,4-dihydroxyphenyl-
- Dopamine, analysis of pentafluoropropionyl deriv. of, liquid chrom. - negative-ion chemical-ionisation m.s., 5J52
- , detection in brain tissue, by h.p.l.c., 3D205
- , detmn., differential pulse voltamm., 2D24
- , voltamm., 6J163
- , in biol. materials, by alumina extraction - enzymic - radiom., 4D195
- , in biol. tissues, by h.p.l.c., 4D190
- , in brain tissue, by h.p.l.c., 2D199, 2D200, 2D201, 5D120
- , automated, 5D128
- , in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D155
- , in presence of adrenaline and noradrenaline, by t.l.c. of dansyl deriv. of tritiated methyl deriv. - liquid scintillation counting, 1D156
- , in urine, by h.p.l.c., 6D199
- , by isolation on immobilised H_3BO_3 - h.p.l.c., 4D191
- , effect of temp. on stability of, 4D188
- , h.p.l.c. - m.s. study of ion pair formed with octanesulphonate by, 4D194
- , identn. in urine, with coulom. dual-electrode detector, 3D204
- , identn. and detmn. in presence of adrenaline and noradrenaline, by t.l.c., 4E17
- , sepn. from its metabolites, by h.p.l.c., 1D152
- , from other biogenic amines and products of their caeruloplasmin-catalysed oxidation, by h.p.l.c., 2D196
- , *O*-sulphates, detection, fluorim., 4D196
- , sepn. and detmn., by h.p.l.c. using post-column hydrolysis, 1D159
- Doxepin, detmn., spectroph., 3E49
- , in blood plasma, with its desmethyl deriv., by g.c. - m.s., 5D60
- Doxorubicin, detmn. in blood plasma, by h.p.l.c., 3D68
- , in urine, differential pulse voltamm., with pre-concn. at carbon-paste electrode, 3D69
- Doxycycline, detection, by luminescence method, 4E22
- , detmn., cyclic voltamm., with measurement at interface of two immiscible soln., 5E23
- , identn. and detmn. of metabolite of, in biol. tissues or urine, by h.p.l.c., 6D62
- , hydrochloride, detmn. in pharmaceutical preparations, spectroph., 4E24
- Droperidol, detmn. in blood plasma, by g.l.c., 5D54
- Drugs, analysis, quality assurance in, 6D48
- , requirements for emergency procedures for, 6D46
- , review, 4A2
- , of antiepileptic, by h.p.l.c. - u.v. spectroph., system for, 6E54
- , of compounded, by t.l.c. - densitom., 1E3
- , of mixtures of, by h.p.l.c. - m.s., 2C127
- , of psychotropic, polarogr., review, 5E30
- , analytical aspects of diets containing, used in toxicology studies, 4E89
- , analytical profiles of, 2E71B

Drugs—continued

- characterisation and identn., thermomicrosc., 3E7
 detection, review of emergency methods for, 6D47
 of anti-inflammatory analgesic, in urine, with their metabolites, by g.c. - m.s., 4D94
 of I⁻ and free I⁻ in, colour reaction for, 3E2
 detmn., by EMIT assay, logit - log. calibration curves for, 1D52
 by ¹⁹F n.m.r. of pentafluoropropionyl deriv., 3E9
 phosphorim., 3J88, 6E6
 potentiom., 6E7
 in biol. fluids, by t.l.c., 5A2C
 with their metabolites, 4D47
 by automated h.p.l.c., 4D48
 in blood, by g.c. or g.c. - m.s., effects of contaminants in collection devices for, 3D53
 in blood from patients treated by haemoperfusion - haemodialysis, by g.l.c., 1D65
 in blood plasma or blood serum, by automated fluorim. or spectroph. method after enzymic hydrolysis, 1D50
 in blood plasma or urine, by h.p.l.c., 3D55
 in blood serum, by m.s. - m.s., 5D25
 in pharmaceutical preparations, with AMICA automatic analyser, 6J16
 in topical cream formulations, by automated h.p.l.c., 3E4
 in urine, with their metabolites, extraction-chrom. clean-up system for, 2D61
 of acidic, in blood, by g.c. of methyl deriv., 6D51
 of β -adrenergic blocking, differential pulse polarogr., 4E56
 of amine, potentiom., ion-selective electrodes for, 6J158
 in blood plasma or urine, by g.l.c. of pentafluorobenzoyl deriv., 4D52
 of anticonvulsive, review, 3D76
 in blood plasma, comparison of methods for, 5D45
 of antifungal, by h.p.l.c. and other non-biol. methods, review, 5E41
 of antitumour, in blood serum, by h.p.l.c. - m.s., 3J113
 of β -blocking, by t.l.c., 2D63
 of bisfluorophenyl and butyropheneone neuroleptic, in urine, by g.c. of acetyl deriv. - m.s., 3D91
 of Cd and Pb in, by a.a.s., 4E5
 of commonly abused, 4D53
 in urine, inactivation of lysozyme in EMIT-dau method for, 1D51
 of heavy metals in, voltamm., 3E1
 of hormonal and anti-hormonal, by g.c. - m.s., review, 1D97
 of hydrobromides and hydrochlorides, non-aq. titrim., 5E2
 of hydrochlorides, non-aq. titrim., 5E3
 of impurities in, by m.s., 2E45
 of minor components in preparations of, by high-performance t.l.c., 2E52
 of phenol, spectroph., 6E8
 of purity of, by m.p. detmn., 6E2
 of tricyclic antidepressant, in blood plasma, by h.p.l.c., 4D100
 in blood plasma or blood serum, by g.l.c., 5D59
 identn., by g.c. of underivatised compounds, 3E6
 by g.c. - m.s., 6A5C
 in creams, by t.l.c., 5E5, 5E6
 of commonly abused, review of chrom. methods for, 4E1
 of metabolites of, by g.c. - m.s., 3J99
 of powdered vegetable, review of computer-aided methods for, 1E15
 identn. and detmn. in blood or urine, by g.c. and g.c. - m.s., 5D24
 in gastric washings or urine, by g.c. - m.s. and t.l.c., 2D64
 of basic, in liver tissue, by g.c., 3D54
 interferences in clinical analysis by, review, 1D8
 ion-pair distribution-chrom. studies of, review, 2D62
 monitoring of, in neonate, review, 1D49
 phosphorim. study of, on filter-paper at low temp., 2J124
 reactions with xanthhydryl of, review, 6E4
 report of symposium on chemotherapeutic agents containing Pt, Au and other metals, 5A1
 sepn., ion-exchange paper chrom., 5E7
 of anions in basic, by h.p.l.c., 6J24
 of tricyclic antidepressant, by g.l.c., 1J77
 sepn. and detmn. of commonly abused, by g.c., 1E4
 solvent extraction of amine, with CHCl₃, artefact formation in, 4D49
 study of binding to proteins of, by flow-injection - fluorim. method, 1D48
Drying oils, detmn. of flash point of, BSI method for, 4C54
Duodenal fluid, assay of α -amylase, triacylglycerol lipase and trypsin in, comparison of methods for, 4D306
 detmn. of amatoxins in, by r.i.a., 5D89
 of elements in, using three-electrode plasmatron, 6H1
Durene, sepn. from other aromatic hydrocarbons, by h.p.l.c., use of multiple linear-regression analysis for calculation of conditions for, 5C30
Dust, detmn. of chrysotile in samples from road-vehicle brake drums, X-ray diffractom., 3B169
 of elements in furnace, by lithium borate fusion - a.a.s., 4B10
 of In in samples from lead-manufacturing plant, spectroph., 2B57
 measurement of fibrous, review, 5H6
 vibrational micro-spectrosc. study of interplanetary, 1A1C
 —, **atmospheric**, see also *Aerosols; Smoke*

Dust, atmospheric—continued

- analysis, by SEM/EDS, collection and preparation procedure for, 1H5
 of steel-making, by X-ray diffraction, 2A2C
 of surfaces of, X-ray photoelectron spectrom., 3H10
 characterisation, review, 1H8
 of N- and S-containing, by evolved-gas analysis and photoelectron spectrom., 3A1C
 detection of aflatoxins in grain, by t.l.c., 3G4
 detmn. in air, by continuous measurement of β -radiation absorption, and detmn. of heavy metals therein, by XRF, 4H7
 of aflatoxins in, by t.l.c. - fluorim., 4H27
 of ²⁶Al and ¹⁰Be in, by m.s., 1H16
 of Sb in, by a.a.s., 2A2C
 of As in, problems arising in, 2H16
 of benzo[a]pyrene in, by g.l.c., 2H35
 by h.p.l.c., 4H25, 5H36
 of Br-to-Pb ratio in, review, 1H22
 of Cd, Fe, Pb, Mn, Ni and Zn in, by a.a.s., digestion methods for, 4H8
 of C and S in, automated system for, 3H17
 of carbon black in filters for collection of rubber-factory, gravim., 5H41
 of Cl⁻ in, ion chrom., effect of gaseous HCl in, 4H17
 of chrysotile in, X-ray diffractom., interferences in, 1H27
 of elements in, by n.a.a. and XRF, 3H13
 by XRF, 4H3
 emission spectrom., with direct nebulisation of suspensions into ICP, 1H26
 using three-electrode plasmatron, 6H1
 with laser micro-probe mass analyser, for source identn., 3H12
 of fatty acids in, liquid chrom. - m.s., 2H31
 of F⁻ in, 2A2C
 of lacinilene C 7-methyl ether in cotton, by h.p.l.c., extraction methods for, 2C107
 of Pb in, by a.a.s., extraction method for, 1H2
 of Pb speciation in, by a.a.s., 5J117
 of Mn and SiO₂ in free form in, by a.a.s., 5H14
 of metals in, by a.a.s., field sampler for, 2H13
 of NO₃⁻ in, with use of diffusion denuder with filter pack, 1H20
 of org. components of, review, 3H22
 of oxygenated PAH in, by g.c. and g.c. - m.s., 4H26
 of radioactivity of, monitoring network for, 3H14
 of Se in, by XRF, 1H34
 of H₂SO₄ and other sulphate species in, by thermal analysis with flame-photom. detection, 4H16
 identn. of mutagenic species in, 2A2C
 of source of, by n.a.a. detmn. of trace-element composition, 4H6
 recovery of org. C from, by Soxhlet extraction, 2H26
 sampling of, efficiencies of inlets for devices for, 1J4
 errors associated with use of filters for, 5H8
 sepn. of org. and elementary C in, 2H25
 use of fluorescent cotton-dust tracer for monitoring of, in cotton-textile manufacturing, 6H58
 X-ray-photoelectron spectrom. studies of size-resolved particles of, 1A1C
 —, **flue**-, detmn. of elements in, by n.a.a., 4H6
 of polychlorinated dibenzo-p-dioxin or dibenzofuran deriv. in, by g.c. or g.c. - m.s., 2G4
Dyes, analysis of textile-dyeing, in mud or waste water, by h.p.l.c., 6H75
 applications of high-performance t.l.c. in production of, and in production of their intermediates, 5A2C
 detection, by laser-induced fluorescence, 5C73
 detmn., with AMICA automatic analyser, 6J16
 in paprika, comparison of methods for, 1F36
 in textile-dyeing waste water, by h.p.l.c., 2H104
 of acidic anthraquinone, potentiom., 5C74
 of benzidine in direct, use of radio-tracers in evaluation of techniques for, 6A2C
 of metabolites of, in urine, by g.c. of heptafluorobutyl deriv. or by h.p.l.c., 3D137
 of purity of, by t.l.c., 4C72
 of Zn in, comparison of methods for, 3C97
 for foods, analysis, by h.p.l.c., reviews, 4F3, 5F6
 detmn. of org. impurities in, by h.p.l.c., 6F14
 differential pulse polarogr. - spectroph. study of degradation of azo-, 5F13
 sepn. and detmn., by liquid - liquid partition - paper chrom. (or t.l.c.) - h.p.l.c., 2F7
 in foods, comparison of methods for, 2F9
 liquid chrom. - paper chrom. (or t.l.c.) - h.p.l.c., 2F8
 for hair, detection and detmn. of oxidising, 2C92
 sepn. and detmn. of ingredients in oxidative, by h.p.l.c., 2C97
 by t.l.c. - densitom., 2C96
 h.p.l.c. study of 4-aminotriphenylmethane, 1C96
 h.p.l.c. study of purity of aminocoumarin, 5C75
 quality control of bacteriological stains, with use of luminescence method, 3C99
 sepn., by t.l.c., 3C98
 sulphophthalein, as extraction reagents for quaternary ammonium compounds, 1E1

Dyes—continued

t.l.c. study of basic, 2C98

t.l.c. study of natural, 5C72

Dyes, listed under commercial or common names, with corresponding Colour Index (Third Edition) designations, under which references will be found

- acridine yellow. No. 46025
 alizarin. *Pigment Red 83*
 Alizarin blue. No. 67410
 alizarin red S. *Mordant Red 3*
 Amido black. *Acid Black 1*
 Astra violet 3R. *Basic Violet 16*
 Azure A. No. 52005
 Azure B. No. 52010
 Brilliant black BN. *Food Black 1*
 butylrhodamine B. *Basic Violet 10 butyl ester*
 carminic acid. *Natural Red 4*
 Chromal blue G. *Mordant Blue 55*
 Chrome Azurol S. *Mordant Blue 29*
 Chromotrope 2B. *Acid Red 176*
 Chromotrope 2R. *Acid Red 29*
 cochineal. *Natural Red 4*
 Congo red. *Direct Red 28*
 Coomassie brilliant blue G250. *Acid Blue 90*
 Coomassie brilliant blue R250. *Acid Blue 83*
 crystal violet. *Basic Violet 3*
 curcumin. *Natural Yellow 3*
 eosin. *Acid Red 87*
 Eriochrome Azurol B. *Mordant Blue 1*
 Eriochrome black T. *Mordant Black 11*
 Eriochrome blue SE. *Mordant Blue 13*
 Eriochrome cyanine R. *Mordant Blue 3*
 erythrosine B. *Acid Red 51*
 ethyl violet. *Basic Violet 4*
 Evans blue. *Direct Blue 53*
 Fast Red TR salt. *Azoic Diazo Component 11*
 fluorescein. *Acid Yellow 73*
 indigotin. *Food Blue 1*
 malachite green. *Basic Green 4*
 Meldola blue. *Basic Blue 6*
 methyl orange. *Acid Orange 52*
 methylene blue. *Basic Blue 9*
 naphthalene black. *Acid Black 1*
 neutral red. *Basic Red 5*
 phenosafranin. No. 50200
 Pyronine G. No. 45005
 quinoline yellow. *Acid Yellow 3*
 Remazol Brilliant Blue. *Reactive Blue 19*
 Resorcin blue. No. 51020
 Rhodamine B. *Basic Violet 10*
 Rhodamine 6G. *Basic Red 1*
 Sirius red F3BA. *Direct Red 80*
 Solochrome black T. *Mordant Black 11*
 Solochrome cyanine R. *Mordant Blue 3*
 Solochrome dark blue. *Mordant Black 17*
 Sudan black B. *Solvent Black 3*
 tartrazine. *Food Yellow 4*
 tetraiodofluorescein. *Acid Red 51*
 Titan yellow. *Direct Yellow 9*
 tropaeolin OO. *Acid Orange 5*
 ultramarine blue. *Pigment Blue 29*
- Dyes, listed under designations in the Colour Index (Third Edition)**
- 45005, as reagent for Pd, with I^- , 6B171
 46025, as reagent for Ga, 4B64
 50200, as reagent for Au, 5B42
 for Ag, with Br^- , 1B112
 51020, as indicator for iodimetry, 1D244
 52005, as reagent for surfactants, 3C91
 52010, as reagent for surfactants, 3C91
 67410, as indicator for iodimetry, 1D244
 Acid Black 1, as reagent for acidic polysaccharides, 4D146
 for proteins, 2F27, 5D158
 Acid Blue 83, as reagent for acidic polysaccharides, 4D146
 for proteins, 4F39, 6D227
 Acid Blue 90, as reagent for peptides, 5F10
 for proteins, 4D244, 5D158, 6D228, 6D229
 Acid Orange 5, as reagent for thiamine, 4E30
 for xylometazoline hydrochloride and its decomposition product, 3E52
 Acid Orange 52, as reagent for surfactants, 3C91
 Acid Red 29, as reagent for Sc, 1B78
 Acid Red 51, as reagent for Mn, with 1,10-phenanthroline, 4B155
 Acid Red 87, as reagent for qualidil, 6E63
 for Ag, with 1,10-phenanthroline and Triton X-305, 6B41
 Acid Red 176, as reagent for methdilazine, 4E66
 Acid Yellow 3, detmn. of quinoline deriv. in, by h.p.l.c., 6F14
 Acid Yellow 73 sodium salt, detmn., by oscillographic titration, 3E3
 Azoic Diazo Component 11, as reagent for use in assay of acid phosphatase, 1D267, 1D268

Dyes, listed under designations in the Colour Index—continued

- Basic Blue 6, as reagent for visualisation of NAD^+ -NADH-dependent reactions, 1D14, 1D255
 Basic Blue 9, as reagent for B, with F^- , 1B164, 6B94
 detmn., by pptn. titration using trinitrobenzenesulphonate-selective electrode, 6J148
 spectroph., 1E1
 of purity of, by t.l.c., 4C72
 Basic Green 4, as reagent for As, with Sb and molybdate, 4H59
 for B, with 2,6-dihydroxybenzoic acid, 4H50
 for Ir, 6B178
 for Pb, with Br^- , 3B180, 5B103
 for PO_4^{3-} , 5H68
 for phospholipids, 5D217
 for P, with molybdate, 3H60
 phenylethynyl analogue, as reagent for ClO_4^- , 4B150
 Basic Red 1, as reagent for Ir, 1B186
 for ClO_4^- , 5B138
 for Re, 3B129
 detmn., by laser-induced fluorescence, 5C73
 Basic Red 5, detmn. of purity of, by t.l.c., 4C72
 Basic Violet 3, as reagent for Sb, 4H91
 for As or P, with molybdate, 4B182
 for Ir, 6B178
 for Mo, with SCN^- , 5H78
 for P, 6G12
 for Re, 3B129
 for Ta, with F^- , 2B149
 Basic Violet 4, as reagent for Re, 3B129
 Basic Violet 10, as reagent for Sb, 5B21
 for Au, 2B20
 for Mo, 6D42
 for PO_4^{3-} , with molybdate, 5D22
 for Zr, with N-phenylanthranilic acid, 4B180
 with salicylic acid, 2B107
 butyl ester, as reagent for Re, 3B129
 Basic Violet 16, as reagent for sulphonic acids, 3H101
 Direct Blue 15, detmn. of metabolites of, in urine, by g.c. of heptafluorobutyl deriv. or by h.p.l.c., 3D137
 Direct Blue 53, detmn. in blood plasma, by h.p.l.c., 5D80
 Direct Red 2, detmn. of metabolites of, in urine, by g.c. of heptafluorobutyl deriv. or by h.p.l.c., 3D137
 Direct Red 28, as reagent for carboxylates, 3C32
 Direct Red 80, as reagent for collagen, 5F37
 Direct Yellow 9, as reagent for Cd, with polysorbate 80, 5B54
 Food Black 1, detmn. in beet sugar, by t.l.c., 3F12
 Food Blue 1, detmn. in beet sugar, by t.l.c., 3F12
 Food Yellow 4, detmn. in rice-milk, by h.p.l.c., 5F30
 Mordant Black 11, as reagent for dipyrindamole and methdilazine, 4E66
 for Sc, 1B78
 formation of complexes of, with In and diphenylguanidine, 2B58
 Mordant Black 17, as reagent for dipyrindamole and methdilazine, 4E66
 Mordant Blue 1, as reagent for Pd, with hexadecyltrimethylammonium bromide, 6B172
 preparation and analytical data for, 3A8
 Mordant Blue 3, as reagent for dipyrindamole and methdilazine, 4E66
 complexes of, with Group III elements, 1B69
 with rare-earth metals, i.r. spectra of, 1B83
 Mordant Blue 13, as reagent for Sc, 1B78
 Mordant Blue 29, as reagent for Al, in absence or presence of Sep-tonex, 3B58
 for Be, with dodecyltrimethylammonium acetate, 4B50
 with polyoxyethylene glycol octylphenyl ether, 4B51
 for Be, Cu, Fe, Pd, Ti, V and Zr, 1B13
 for Cd, with 2,2'-bipyridyl and hexadecylpyridinium bromide, 6B54
 for lanthanoids and Y, 3B65
 for Sc, with dodecyltrimethylammonium acetate, 4B72
 for U, with hexadecylpyridinium bromide, 3F4
 with hexadecyltrimethylammonium chloride, 4B92
 Mordant Red 3, as amperom. reagent for Gd and Sm, 2B68
 as reagent for Al, in presence of polyvinylpyrrolidone, 5B65
 detmn., potentiom., ion-selective electrode for, 4J136
 Natural Red 4, as reagent for B, 3B145
 t.l.c. study of, 5C72
 Natural Yellow 3, as reagent for B, 3B145, 3G11
 sepn. from related compounds and detmn., by h.p.l.c., 4F12
 t.l.c. study of, 5C72
 Pigment Blue 29, detmn. in beet sugar, by t.l.c., 3F12
 Pigment Red 83, as reagent for Ca, 3D32
 Reactive Blue 19, as reagent for proteins, 2D236
 Solvent Black 3, as reagent for lipoproteins, 5D167
- Dyes, not included in the Colour Index (Third Edition)**
- beet red, t.l.c. study of, 5C72
 dibromozalazarin violet, as reagent for W, with hexadecyltrimethylammonium bromide, 1B144
 Disperse yellow 6G, as metallochromic indicator, 4B188
 indocyanine green, detmn. in blood plasma, by h.p.l.c. or spectroph., 1D100
 Lissamine blue BF, as indicator for iodimetry, 1D244

Dyes, not included in the Colour Index—continued

- Sevron blue, as indicator for iodimetry, 1D244
 thionine, as reagent for B, with H-resorcinol, 2B48
 detmn. of purity of, by t.l.c., 4C72
Dysprosium, detmn., gravim., 4B81
 u.v. spectroph., 4B82
 in copper, flame photom., with sepn. by amalgam electrolysis, 6B36
 in misch metal, by a.a.s., 1B80
 in ytterbium oxide, by luminescence method, 4B86
 in yttrium oxide, emission spectrom., 2B62
 sepn. from La or Pr, magneto-paper electroph., 3B15
Dysprosium, reagents for, tetraethylenepentaminehepta-acetic acid, 4B82
N-p-toloxamic acid, 4B81
Dysprosium complexes, with diethylenetriaminepenta-acetic acid or EDTA, detmn. in water, by n.a.a., 3H74

E

- EDTA**, characterisation, by fast-atom bombardment, 3C118
 detmn., potentiom., with Ca^{2+} -selective electrode, 4A18
 sepn. from other aminopolycarboxylic acids or from PO_4^{3-} , ion chrom., 3C40
 study of, with laser micro-probe mass analyser, 5A3C
ESCA, see *Spectrometry, photoelectron, X-ray*
Ecgonine, detmn. in urine, liquid chrom. - t.l.c., 5D27
 —, **benzoyl-**, h.p.l.c. study of stability of soln. of, 3E14
Edeine D, detmn. of isomeric purity of isomers of, by dansylation - hydrolysis - t.l.c., 2D215
Edifenphos, detmn. of residues of, by g.l.c., isolation and clean-up methods for, 6G36
Eels, detmn. of Mirex in, in presence of PCB and other chloro-compounds, by g.c., 1G32
Eggs, assay of lysozyme in white of, by h.p.l.c., review, 3F29
 detmn. of chloramphenicol in, by h.p.l.c., 6F13
 of chloramphenicol, furazolidone and sulphonamides in, by h.p.l.c., 5F42
 of riboflavin in, by h.p.l.c., 4F42
 of xylinidine in yolk or albumin of, by g.l.c. - selected-ion monitoring, 3D9
 sepn. and detmn. of saturated and unsaturated phospholipids in lecithin of, by t.l.c. - densitom., 2D156
Eicosatetraenoic acids, identn. of isomeric, by g.c. - m.s., with direct column - ion source coupling, 4D157
Eicosatrienoic acids, vic-dihydroxy-, detection in arachidonic acid metabolites, by h.p.l.c. - g.c. - m.s., 3D163
Elaidic acid, sepn. of geometrical isomers of, by h.p.l.c. of naphthacyl or phenacyl deriv., 1C28
Elderberries, sepn. of anthocyanins of, by h.p.l.c., 6D253
Electrochemical analysis, automated, reviews, 6J127, 6J128
 automatic data-acquisition system for use with ion-selective electrodes and other sensors, 6J159
 compilation of collections of data in, 4A24
 cuvette for simult. time-dependent measurements in, 1J96
 electrolytic vessel for serial, 4J127
 in biomedical, environmental and industrial sciences, report of symposium on, 3A2
 instrument for measurement of a.c. impedance, 1J195
 multi-purpose apparatus for, 2J179
 operational conditions for double-addition method of detmn. of ions from e.m.f. of ion-selective cells, 1J186
 review, 6J126
 semiconductor sensors for, review, 6J131
 use of dalzin in, 4J129
 —, **spectro-**, battery-powered coulostat for measurement with pulsed laser source in, 4J142
 dual-beam difference technique for, 1J106
 long-optical-path cell for, for absorption or fluorescence measurements, 1J107
 thin-layer, 3J71
Electrochemiluminescence analysis, cell for, for use with electrolyte-free soln., 1J135, 2J126
Electrodes, analysis of chemically modified, 3A1C
 automated hanging-mercury-drop, 2J180
 bacterial, pyruvate-sensitive, 6J154
 characterisation of reference, with use of impedance measurements, 1J196
 Clark-type O-sensitive, response to CO of, 5D15
 detmn. of chemical history of fuel-cell, with nuclear micro-probe, 5A4C
 of quinoline-insol. material in pitch for, BSI gravim. method for, 5C60
 enzyme, *N*-acetyl-L-methionine-sensitive, 6J157
 arginine-sensitive, 4D220
 aromatic amine-sensitive, 6J149
 catecholamine-sensitive, eliminating ascorbate interference, 4D193
 coupled two-compartment model for immobilised-enzyme, 2J176
 creatine- and creatinine-sensitive, 2D204
 dextran-sensitive, 4F20
Electrodes, enzyme—continued
 glucose-sensitive, 1D15, 2D115, 2J174, 6J151, 6J152, 6J153
 review, 2D114
 hypoxanthine-sensitive, 6J151
 incorporating enzymes bound to nylon nets, 2J175
 lactate-sensitive, 3D160
 methionine-sensitive, 6J157
 NADH- and NADPH-sensitive, 1D229
 preparation and analytical uses for, review, 5J147
 spermidine- and spermine-sensitive, 3D199
 substrate consumption at, 1J194
 urea-sensitive, 1D15, 2J177
 uric acid-sensitive, 6J151
 ferrocene-modified platinum, sensitive to ascorbic acid, 4J135
 for amperometry, carbon-fibre disc array as, 3J145
 for polarography, bubble-type, 6J160
 for voltammetry, pyrolytic-carbon film, 2J182
 hanging-mercury-drop, modified for use in pulsed experiments, 3J144
 ion-selective, analytical applications of immobilised enzymes with, review, 6J150
 applications of, at low concn. where response is non-Nernstian, 6J169
 in detmn. of single-ion activity at high ionic strength, 2A24
 automatic data-acquisition system for use with, 6J159
 chalcogenide-activated graphite rods as, 5B15
 continuous analyser incorporating, 6J170
 detmn. of chemical response time of micro-, 2J167
 detmn. of selectivity of, 4A23
 for acetylcholine and choline, 2J178
 for actinyl^{VI} ions, 3J138
 for Alizarin red S, 4J136
 for amine pharmaceuticals, 6J158
 for NH_4^+ , 6J143
 measurement of response - time curves for, 2J172
 for Cd^{2+} , 5B57
 for Ca^{2+} , 6J139
 antilogarithmic unit for use with, 6J140
 applications in titrimetry of, 4A18
 reduction of surfactant interference in, 3J135
 for Cl^- , 3J142
 for cholic acids, 1E12
 for Cr^{VI} , 6J145
 for Cu^{2+} , 3B10, 3J134, 6J137
 calibration of, 2J168
 for $\text{Ag}(\text{CN})_2^-$, 6J138
 for $\text{Au}(\text{CN})_2^-$, 1J191, 2J169
 for ephedrine, 6J156
 for F^- , 6D43
 dynamic response of, 6H47
 effect of experimental conditions on limit of rectilinear response of, 3J141
 for halides, response to hypohalous acids of, 2B135
 for Fe_6^{3+} , 3J139
 for hydrocortisone antibody, 6J155
 for Pb^{2+} , 1J192, 3J134
 for MoO_4^{2-} , 6J146
 for Ni^{2+} , 3J134
 for NO_3^- , 6J144
 effects of anionic surfactants on response of, 2H60
 for ClO_4^- , 4J133
 for K^+ , 1J190, 6J136
 for Na^+ , 4J130
 for S^{2-} , 5B125
 for TiCl_4^- , 3J137
 for BF_4^- , 4J131
 for Ti^+ , 2J170, 3J136
 for SCN^- , 6J142
 for HgCl_3^- , 6J141
 for trinitrobenzenesulphonate, 6J148
 for UO_2^{2+} , 5H63
 for ZrO^{2+} , 6B108
 in biomedical analysis, review, 6D6
 performance of, in soln. and saturated disperse systems, 6J135
 reviews, 6J126, 6J129
 time-dependent selectivity behaviour and dynamic response to interfering ions of silver halide membrane, 6J147
 with low output impedance, 6J133
 with solid sensor coatings applied to electrically conductive epoxy, 2A2C
 PTFE - graphite probe with integrated electronics, 1J188
 long-lasting sessile-mercury-drop, 1H54
 membrane, for detmn. of CO_2 and O_2 , 2J171
 pH, influence of colloidal charge on response of, 6J134
 polymeric liquid membrane, 3D26
 pH response of coated platinum and vitreous-carbon, 2J165
 polymeric sulphur nitride, potentiom. titration of weak acids using, 2J166
 reference, for use in org. solvents, 3J147
 influence of colloidal charge on response of, 6J134
 kinetic, static and stirring errors of liquid-junction, 4J128
 ring - disc, mercury-plated, 6J162

Electrodes—continued

- rotating-disc, improvement to commercially available, 4J139
- miniature, 3J146
- sandwich, for multi-gas analysis, 1J193
- summing, for detmn. of total concn. of free ions in soln., 1J187
- vitreous-carbon, analytical applications of thin-layer reticulated, 6J164
- effect of pH on response of, 4J138
- preparation of plasma-polymerised vinylferrocene film of, 1J199
- Electron micro-probe analysis**, applications of, in metal analysis, review, 2B2
 - calculation of absorption correction in, 4J82
 - correction methods for use in studies of alloys by, 2B9
 - of low-atomic-number samples with irregular surfaces, 1J99
 - quantitation in, 1A1C
 - technique for study of thin films by, 5B188
- Electron microscopy**, analytical, in medicine and biology, review, 2D2
 - applications in metal science of, review, 2B2
 - cryogenic preparation system for scanning, 2J81
 - high-resolution, review, 2J80
 - hybrid scanning modes and computer support in analytical transmission, 2J82
 - on-line processing of chemical-analysis data using conventional and scanning transmission, review, 2J83
 - report on conference on, 1A1
- Electronics materials**, analytical assistance in technology of, 3B175
- Electrophoresis**, see also *Isoelectric focusing*; *Isotachopheresis*
 - applications of two-dimensional, in clinical analysis, review, 4D1
 - evaluation of chromatograms in, with position-sensitive wire detectors, 6A2C
 - fundamentals and applications of, 2J77B
 - of complexes, review, 4A20
 - , on gels, analysis of tissue extracts by micro-, 4J55
 - apparatus for, suitable for various techniques, 3J43
 - apparatus for preparative, 4J54
 - application of samples to thin-layer polyacrylamide gels in, 6J49
 - contrast enhancement and protection of nitrocellulose electro-blots of proteins and peptides separated by, 5J69
 - enhancement of resolution in two-dimensional, 4J56
 - evaluation of electropherograms in, with high-spatial-resolution laser-beam densitometer, 5J70
 - microwave drying of polyacrylamide slabs for, 3J44
 - optical comparator for measurements in two-dimensional, 4D238
 - removal of polyacrylamide gel rods for, from casting glass tubes, 2J45
 - simplified horizontal apparatus for, 5J68
 - with use of polyethylene plastic envelopes, 1J63
- Electroplating solutions**, detmn. of Co and Cu in, by a.a.s., sepn. method for, 1J59
 - of Sn^{2+} in, with AMICA automatic analyser, 6J17
- , **copper**, detmn. of Cu in, potentiom., with ion-selective electrode, 3B31
 - of NO_2^- in, cyclic voltamm. or spectroph., 4B44
 - of sulphonioalkanesulphonate-based additives in, stripping cyclic voltamm., 1B40
- , **gold**, detmn. of Au in, potentiom., with $\text{Au}(\text{CN})_2^-$ -selective electrode, 1J191
- , **nickel**, detmn. of coumarin and saccharin in, titrim., 2B160
- sepn. and identn. of org. additives and their breakdown products in, by h.p.l.c., 6B169
- , **palladium**, detmn. of NO_3^- in, potentiom., with ion-selective electrode, 4B200
- of Pd in, photom., 5B165
- , **silver**, detmn. of Ag in, potentiom., with ion-selective electrode, 6J138
- of Ag and SCN^- in, potentiom., with ion-selective electrodes, 3B38
- , **tin**, detmn. of surfactant in, titrim. - gravim., 2B97
- , **zinc**, detmn. of $(\text{NH}_4)_2\text{SO}_4$ in, potentiom., with NH_3 -selective electrode, 6B52
- Electrosorption**, kinetic and analytical aspects of measurements of, review, 6J125
- Embramine hydrochloride**, differentiation of polymorphs of, i.r. spectrom., 3E8
- Emodin**, detection, by t.l.c., 5E18
- detection and detmn. in cereals or feeding-stuffs, by t.l.c. and h.p.l.c., 3G24
- Emulsifiers**, analysis, by g.l.c., 2F10
- detmn. of migration of, from polymeric coatings, review, 6F18
- β -Endorphin**, detmn., by r.i.a., 6A4C
- Endosulfan**, see *Thiodan*
- Endothal**, detmn. in blood, liver tissue or stomach contents, by g.l.c. of anhydride, 4D138
- Endrin**, detmn., titrim., 4G17
- in pesticide mixtures, by automated g.c. - m.s., 2G12
- in sewage sludge, by g.l.c., 2H109
- Engine coolants**, detmn. of Na mercaptobenzothiazole and Na tolyltriazole in, by h.p.l.c., 5C91
- Enkephalins, leucine**, detmn. by enzyme immunoassay, 4D229
- in caudate nuclei or hypothalamus, by h.p.l.c. - field-desorption m.s., 1D185
- in nervous tissue, by h.p.l.c. - field-desorption m.s., 6D222
- , **methionine**, detmn., by enzyme immunoassay, 4D229

Enolases, see under *Enzymes, specific*

- Enoxolone**, detmn. in glycyrrhiza or *Lonchocarpus cyanescens* roots, by g.l.c. of TMS deriv., 1E45
 - Enterodiol**, detmn. in biol. fluids, by g.c. of TMS ether deriv. - m.s., 2D128
 - Enterolactone**, detmn. in biol. fluids, by g.c. of TMS ether deriv. - m.s., 2D128
 - Environmental materials**, see also headings such as *Air*; *Soil*; *Water, natural*; etc.
 - analysis, applications of capillary g.c. columns in, 3H3
 - applications of extraction methods in, review, 4B4
 - applications of t.l.c. in, 3D320B
 - by g.c. - m.s. - m.s., 2H3
 - by high-resolution g.c., 4A1C
 - by positive-ion - negative-ion chemical-ionisation m.s., 6H65
 - by pyrolysis - g.c., review, 2J56
 - generation of test gases for calibration of methods used in, 4H1
 - ion chrom., 4A1C
 - microwave desorber for use in, 3H4
 - report of congress on, 2A2
 - standard reference materials in quality assurance in, review, 5H43
 - use of stable-isotope-labelled compounds in, 6A2C
 - of pesticides in, review, 5G26
 - of phenols in, by g.l.c. and h.p.l.c., review, 6C33
 - of pollutants in, by two-dimensional t.l.c., review, 5J74
 - of toxicants in agricultural, review, 3H2
 - detection of radioactivity in, review of laboratory-instrumental methods for, 4H2
 - detmn. of ^{241}Am and Pu in, by ion exchange - electro-deposition - α -spectrom., 3G12
 - of anions in, ion chrom., 1H55
 - of As in different chemical forms in, by g.c. - m.s., 6B114
 - of asbestos in, 4A1C
 - of chlorophylls and phaeophytins in, fluorim., derivation of equations used in, 6H60
 - of Cr in, spectroph., 3B121
 - of elements in, by h.p.l.c. of chelate complexes, 2H43
 - by n.a.a., 1B9
 - emission spectrom., 2D33
 - using three-electrode plasmatron, 6H1
 - of ^{129}I in, by n.a.a., 1H71
 - of Hg in, by a.a.s., potential source of interference in, 6B56
 - of PCB in, by g.l.c. - m.s., 3H8
 - of PAH in, by h.p.l.c., review, 2H4
 - by quasi-line luminescence and excitation spectra, 6H4
 - of radioactivity in, quality assurance and control considerations in, review, 5H2
 - of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin in, by oxidative cleavage - g.c. - m.s. 2H5
 - g.c. - m.s. and g.c. - triple quadrupole m.s. studies of priority pollutants in, 3H5
 - identn. of components of, by g.c. - m.s., 3J99
 - lectures on causes, effects and control of pollution of, 2A3
 - monitoring of, with thermoluminescence dosimetry, 5H1
 - radioanalysis, 5H104B
 - sampling of, review, 3J1
 - sepn. of ^{241}Am and Pu in, extraction chrom., 6A5C
 - of ^{210}Bi , ^{210}Pb and ^{210}Po from, by diethyldithiocarbamate extraction, 4B140
 - sepn. and detmn. of radionuclides in, review, 3G17
 - use of photo-mineralisation in studies of oxidation of org. compounds in, 5H3
- Enviroxime**, detmn. in biol. materials, by h.p.l.c., 1D91
- Enzyme immunoassay**, computer programs for use in, 4D5
- homogeneous, review, 2D6
- in endocrine diagnostics, review, 6D7
- logit - log. calibration curves for EMIT methods, 1D52
- methodological aspects of, 3D15
- micro-sticks as solid-phase carriers for ELISA technique, 6D9
- universal reagent for two-site binding, 6D250
- Enzymes**, analysis, by chromat. - a.a.s., 2J74
- in single cells, laser flow cytom., 1A1C
- applications of, in food analysis, review, 1F2
- applications of preparations of, in unsegmented continuous-flow analysis, 1J16
- assay, use of NH_3 -gas-sensing electrode in, 5D224
- in fish tissues during freeze-storage, review, 3F27
- biotechnology, 1D281B
- detmn. of DNA contamination of preparations of, by t.l.c. - spectroph., 1D227
- immobilised, analytical applications of, in nylon tube reactors, review, 2D7
- with ion-selective electrodes, review, 6J150
- applications and economic aspects in analysis of, review, 5A17
- flow-injection analysis using, 5J12
- stopped-flow instrument for reaction-rate measurements with, 2J8
- print technique for ultra-thin-layer isoelectric focusing of, 3D288
- used in clinical analysis, review, 4D2
- Enzymes, specific**, acetylcholinesterase, assay in amniotic fluid, spectroph., 5D215

Enzymes, specific, acetylcholinesterase, assay—continued

- in cerebrospinal fluid, by kinetic method, 5D216
- β -N-acetyl-D-glucosaminidase, assay in blood serum, fluorim., with Multistat III centrifugal analyser, 4D309
- acetylneuraminidase, assay, by h.p.l.c., 5D211
- adenosine deaminase, assay, continuous u.v. spectroph., 3D312
- adenosinetriphosphatase, assay, pyruvate as fluorescence quencher in, 3D315
- in plasma membrane preparations, using Na dodecyl sulphate buffered with bovine serum albumin, 3D316
- of Na - K-dependent, in isolated renal tubules, by kinetic method, 3D314
- adenylate cyclase, assay, radiom., 4D337
- alanine aminotransferase, assay, comparison of standardisation techniques for, 1D253
- evaluation of Hitachi 705 analyser for, 4D10
- with Cobas-Bio centrifugal analyser, 2D20
- in blood serum, effect of lipidaemia in SMAC method for, 2D19
- alcohol dehydrogenase, assay in biol. tissues or blood serum, by immunoassay, 4D310
- amine oxidase (flavin-containing), assay, by g.l.c., 6D270
- in blood serum, fluorim., 1D257
- aminoacylase, assay, fluorim., 4D321
- with NH_3 -sensing electrode, 6J157
- aminoacyl-tRNA synthetases, assay, spectroph., 4D338
- δ -aminolaevulinic acid dehydratase, see *porphobilinogen synthase*
- δ -aminolaevulinic synthase, assay, fluorim., 5D206
- spectroph., 5D208
- in liver tissue or mitochondria, radiom., 5D207
- aminopeptidase, assay in blood serum, spectroph., 4D328, 6D286
- aminopeptidase (cytosol), assay in blood serum, with NH_3 -gas-sensing electrode, 5D225
- α -amylase, assay, by kinetic - spectroph. method, 3D304
- in blood serum or urine, by SMAC method, 1D270
- in blood serum or urine, spectroph., 1D271
- in duodenal fluid, comparison of methods for, 4D306
- in malt, review, 1F43
- in malted flour, comparison of methods for, 4F29
- detmn. of protein inhibitors of, continuous-flow spectroph., 5D163
- properties, assay and clinical significance of, review, 3D302
- amylases, assay, evaluation of Hitachi 705 analyser for, 4D11
- of isoenzymes of, by selective inhibition, linear standard curve for, 6D282
- of isoenzymes of, in blood serum, comparison of methods for, 2D297
- of pancreatic and salivary, by differential inhibition, suitability of control materials for, 3D303
- print techniques for ultra-thin-layer isoelectric focusing of, 3D288
- amylglucosidase, see *exo-1,4- α -D-glucosidase*
- angiotensin-converting enzyme, see *dipeptidyl carboxypeptidase*
- aromatase, assay in hypothalamus, by h.p.l.c. - radiom., 5D236
- aromatic-L-amino-acid decarboxylase, assay, by kinetic - radiom. method, 4D335
- aryl hydrocarbon hydroxylase, see *monooxygenase, flavoprotein-linked*
- aryl sulphotransferase, assay, radiom., 5D212
- arylesterases, assay in biol. materials, chromogenic substrate for, 4D322
- arylsulphatases, assay, electroph. or spectroph., 5D219
- of A and B, in blood or lung tissue, fluorim., 2D296
- asparaginase, assay, by t.l.c. - radiom., 5D226
- aspartate aminotransferase, assay, correction for metronidazole interference in continuous-flow method for, 2D283
- evaluation of Hitachi 705 analyser for, 4D10, 4D11
- spectroph., 3D291
- in blood plasma or blood serum, comparison of standard methods for, 3D292
- in blood serum, effect of lipaemia in SMAC method for, 2D19
- of isoenzymes of, in blood serum, by differential kinetic - spectroph. method, 4D318
- aspartyl-tRNA synthetase, analysis of peptides from CNBr cleavage of, by h.p.l.c., 5D146
- aspirin esterase, assay in blood serum, spectroph., 3D298
- bile salt hydroxysteroid dehydrogenases, sepn. of 7α -, 7β -, and 12α -, affinity chrom., 5D198
- bilirubin-UDP-glucuronyl transferase, see *UDPglucuronosyltransferase*
- carbamate kinase, assay in bacteria, spectroph., 6D273
- carbonate dehydratase, sepn. of components A and B of, and of corresponding apo-enzymes, by h.p.l.c., 2D305
- study of interaction with inhibitors of, with pCO_2 electrode, 4D336
- carbonic anhydrase, see *carbonate dehydratase*
- carboxylesterase, assay, fluorim., 4D321
- catalase, assay, with use of O electrode, 4D308
- in milk, automated, 2F28
- catechol methyltransferase, assay in erythrocytes, radiom., 4D314
- cathepsin D, assay, by kinetic - u.v.-spectroph. method, 4D333
- cholinesterase, assay, with use of gas-tap electrode, 3D299
- in biol. materials, chromogenic substrate for, 4D322
- in erythrocytes, spectroph., 2D289
- resolution of banding patterns of, with use of commercial antisera, 2D290

Enzymes, specific, cholinesterase—continued

- 'true', see *acetylcholinesterase*
- chondroitin D-glucuronosyl 5-epimerase, assay, radiom., 5D235
- chymopapain, analysis, high-performance size-exclusion chrom., 4E34
- chymotrypsin, assay, fluorim. or spectroph., 3D308
- of α -, fluorim., 4D321
- coproporphyrinogen oxidase, assay, radiom., 5D200
- creatine kinase, assay, comparison of standardisation techniques for, 1D253
- evaluation of Hitachi 705 analyser for, 4D10, 4D11
- effect of blood plasma or blood serum on absorbance of buffer used in, 3D294
- with centrifugal analyser, comparison of standardisation techniques for, 1D13
- with Cobas-Bio centrifugal analyser, 2D20
- in blood serum, spectroph., 6D274
- of isoenzyme MB of, comparison of methods for, 1D263
- effect of atypical isoenzymes and of BB isoenzyme in, 3D297
- immunochem., 2D286
- with Multistat III micro-centrifugal analyser, 3D296
- in blood serum, effect of sample dilution in, 6D276
- of isoenzymes of, in biol. tissues, 2D284
- in blood plasma or prostatic tissue, effects of sample storage and sample dilution in, 6D269
- of muscle-specific, by enzyme immunoassay, 6D275
- of sub-unit B of, by r.i.a., 2D285
- of total and brain-specific, in cerebrospinal fluid, by bioluminescence method, 1D262
- sepn. and identn. of isoenzymes of, electroph., 3D295
- cyclic-nucleotide phosphodiesterase, assay, paper electroph. - radiom., 1D273
- cystine aminopeptidase, assay in biol. materials, phosphorim., 6D285
- cytidine monophosphate-sialic acid synthetase, see *acetylneuraminidase*
- debrisoquine 4-hydroxylase, assay in microsomal fractions of liver tissue, by g.c. - m.s., 2D307
- deoxyribonuclease, assay, by measurement of fluorescence polarisation and fluorescence intensity, 3D300
- dextrinase, see *pullulanase*
- dipeptidyl carboxypeptidase, assay in blood plasma, spectroph., 4D330
- characteristics, assay and clinical values of, review, 1D275
- dopa decarboxylase, see *aromatic-L-amino-acid decarboxylase*
- enolases, assay in blood cells or blood serum, by immunoassay, 3D317
- epoxide hydratase, see *epoxide hydrolase*
- epoxide hydrolase, assay, fluorim., 2D301
- radiom., 5D223
- in lymphocytes, radiom., 6D284
- in microsomes, by enzyme immunoassay, 4D327
- esterases, assay, chromogenic substrates for, 4D322
- exo-1,4- α -D-glucosidase, removal of β -glucanase activity from commercial, liquid chrom., 2D298
- ferrochelataase, assay, radiom., 3D318
- β -D-fructofuranosidase, assay in yeast, 5D222
- exo-1,4- α -D-glucosidase, assay in milk, clarification method for, 1F28
- galactosylceramidase, assay, elimination of haemoglobin interference in, 5D218
- gastricin, see *pepsin C*
- β -glucanase, assay in beer, collaborative study of viscom. method for, 2F54
- in malt, by radical-diffusion method, 1F47
- glucose oxidase, assay, with use of O electrode, 4D308
- glucose-6-phosphate dehydrogenase, detection in presence of phosphogluconate dehydrogenase, paper chrom., 1D256
- glutamate decarboxylase, assay, by ion-exchange t.l.c. - radiom., 2D304
- glutaminase, assay, radiom., 1D278
- glutamine phosphoribosylpyrophosphate amidotransferase, assay, radiom., 4D317
- glutamine synthetase, assay in *Vigna mungo* leaves, sample preparation for, 2D306
- γ -glutamyltransferase, assay, by automated controlled-dispersion method, 2J11
- comparison of standardisation techniques for, 1D253
- evaluation of Hitachi 705 analyser for, 4D10, 4D11
- review, 4D315
- glutaryl-CoA dehydrogenase, assay in cultured cells or liver tissue, 5D202
- glutathione peroxidase, assay in biol. tissues, with Centrifichem 400 centrifugal analyser, 4D307
- glutathione reductase (NAD(P)H), assay in biol. tissues, with Centrifichem 400 centrifugal analyser, 4D307
- glutathione transferase, assay, by kinetic - fluorim. method, 6D272
- radiom., 5D223
- in biol. tissues, with Centrifichem 400 centrifugal analyser, 4D307
- GTP cyclohydrolase, assay in liver tissue, by h.p.l.c. - fluorim., 2D303
- glycosylceramidase, assay, elimination of haemoglobin interference in, 5D218
- guanase, see *guanine deaminase*
- guanine deaminase, assay, automated spectroph., 5D227

Enzymes, specific—continued

- guanosine diphosphate-L-fucose:2-acetamido-2-deoxy- β -D-glucopyranoside-(1 \rightarrow 4)- α -L-fucosyltransferase, assay in human milk, by t.l.c. - radiom., 2D282
- guanosine triphosphate cyclohydrolase I, see *GTP cyclohydrolase haem synthase*, see *ferrochelatase*
- heparosan N-sulphate D-glucuronosyl 5-epimerase, assay, radiom., 5D235
- hydrolases, assay, fluorim., 4D321
of lysosomal, by h.p.l.c. - fluorim., 3D301
- 3-hydroxyacyl-CoA dehydrogenase, assay in meat, spectroph., for differentiation of fresh and frozen-and-thawed meat, 3F21
- 2-hydroxybutyrate dehydrogenase, assay in blood serum, continuous-flow colorim., 1D255
- hydroxymethylbilane synthase, see *uroporphyrinogen I synthase*
- 25-hydroxyvitamin D 1 α -hydroxylase, assay in kidney tissue, by h.p.l.c. - protein-binding method, 4D312
- L-iduronidase, purification, liquid chrom., 5D213
- IMP dehydrogenase, assay, radiom., 5D199
- inosine 5'-monophosphate dehydrogenase, see *IMP dehydrogenase*
- invertase, see *β -D-fructofuranosidase*
- isoamylases, assay, by kinetic - spectroph. method, 3D304
by Phadebas method, 3D307
- kallikrein, assay, by enzyme immunoassay, 3D309
in blood plasma, radiom., 4D331
of inactive, in urine, radiom., 1D276
- kininases, assay in biol. tissues, fluorim., 3D289
- kininogenin, see *kallikrein*
- lactate dehydrogenase, assay, comparison of standardisation techniques for, 1D253
evaluation of Hitachi 705 analyser for, 4D10
modified Cobas-Bio procedure for, 5D2
with enzyme electrode, 3D160
in blood serum, continuous-flow colorim., 1D255
effect of lipidaemia in SMAC method for, 2D19
of isoenzymes of, in blood plasma or prostatic tissue, effects of sample storage and sample dilution in, 6D269
sepn. of isoenzymes of, gel electroph., 2D279
- lipases, assay in duodenal fluid, comparison of methods for, 4D306
detmn. of specificity of, review, 5D214
- lipoprotein, assay, radiom., 2D288
- triacylglycerol, assay, fluorim., 4D321
in blood serum, chromogenic substrate for, 4D323
colorim., potentiom. or titrim., 1D264
nephelom. or turbidim., elimination of interference in, 2D287
of hepatic, radiom., 2D288
print technique for ultra-thin-layer isoelectric focusing of, 3D288
- luciferase, analytical applications of firefly, review, 1D254
specificity of firefly, 5D196
- lysozyme, assay, review, 3D305
turbidim., 3D306
in egg-white, by h.p.l.c., review, 3F29
in tears, by immunoturbidim. and kinetic bacteriolytic methods, 6D283
sepn. from other proteins, by h.p.l.c., 3D234
- methionine adenosyltransferase, assay in liver-tissue homogenate, paper chrom. - radiom., 1D260
- N-methyltransferase, assay in biol. tissues, by h.p.l.c., 6D271
- monooxygenase, assay, comparison of methods for, 5D204
- neuraminidase, assay, fluorim., 2D299, 5D221
of Sepharose-immobilised or sol., by kinetic - spectroph. method, 4D326
- nitrate reductase, assay in sugar beet leaves *in vivo*, 2D280
- nucleoside diphosphate-glucose pyrophosphorylases, assay, spectroph., 4D320
- nucleoside kinase, assay, disc-washing apparatus for use in, 4D319
- 2',5'-oligoadenylate phosphodiesterase, assay in L-cell extracts, radiom., 3D313
- papain, assay in beer, radiom., 6F66
- pectinesterase, print technique for ultra-thin-layer isoelectric focusing of, 3D288
- penicillin acylase, assay, fluorim., 6D290
- pepsin, assay, by kinetic - spectroph. method, 3D310
by kinetic - u.v.-spectroph. method, 4D333
fluorim., 4D332
of A and C, in gastric juice, rocket immunoelectroph., 6D288
- peroxidase, assay in milk, clarification method for, 1F28
optimisation of immobilisation of, 1J17
sepn. of isoenzymes of, by electrofocusing, 4D311
- phosphatases, acid, assay in blood serum, by kinetic - spectroph. method, 1D267
in blood serum, interference by bilirubin in, 1D268
with centrifugal analyser, effect of bilirubin in, 6D281
of prostatic, effect of substrate concn. in, 2D294
in blood serum, by immuno-pptn. - spectroph., 6D280
in blood serum, by r.i.a., 1D265
effect of hyperlipidaemia in, 2D295
immunoenzymic, 1D266
identn. on electroph. support media, 1D272

Enzymes, specific, phosphatases—continued

- alkaline, assay, comparison of standardisation techniques for, 1D253
evaluation of Hitachi 705 analyser for, 4D10, 4D11
spectroph., 5D22
in blood serum, fluorim., with Multistat III centrifugal analyser, 4D309
spectroph., 6D277
in milk, clarification method for, 1F28
of heat-stable, in blood serum, fluorim., 2D293
of placental-type, in blood plasma, by enzyme immunoassay, 6D278
detection of placental, by r.i.a., 2D292
evaluation of reagent for inactivation of, 6D279
sepn. of kidney isoenzymes of, by gel filtration - chromatofocusing, 2D291
- 3'-phosphoadenosine 5'-phosphosulphate:phenol sulphotransferase, see *aryl sulphotransferase*
- phosphodiesterase, assay of snake-venom, fluorim., 1D269
- phosphogluconate dehydrogenase, detection in presence of glucose-6-phosphate dehydrogenase, paper chrom., 1D256
- phosphohydrolases, detection on polyacrylamide gel slabs, substrate for, 4D325
- phospholipase A₂, assay, radiom., 4D324
- phospholipase D, detection in algae and other plants, by t.l.c., 5D217
- phosphoribomutase, assay in erythrocytes, radiom., 6D289
- plasmalogenase, assay, alcohol dehydrogenase-coupled spectroph., 2D300
- porphobilinogen deaminase, see *uroporphyrinogen I synthase*
- assay, fluorim., 5D231
spectroph., 5D230
- prolidase, see *proline dipeptidase*
- proline dipeptidase, assay in amniotic fluid cells or skin fibroblasts, fluorim., 4D329
in erythrocytes or skin fibroblasts, colorim., 1D274
- prostaglandin synthase, assay of endogenous inhibitors of, in blood plasma, by r.i.a., 1D258
- proteases, assay, automated colorim., 6D287
in milk, clarification method for, 1F28
in raw materials of marine origin, by spectroph. detmn. of amino-N, 2F23
- protein kinases, assay of catalytic sub-unit of cyclic-AMP-dependent, radiom., 3D293
sepn., electroph., 1D261
- protoporphyrinogen oxidase, assay, comparison of methods for, 5D201
- pullulanase, assay in malt extracts, 1F48
- pyrophosphatase, assay of inorg., by kinetic - pH-measurement method, 1D279
spectroph., 4D334
- renin, assay, fluorim., 3D311
in blood plasma, effect of sample-collection and -storage conditions in, 1D277
- ribonuclease, detmn. of DNA contamination of preparations of, by t.l.c. - spectroph., 1D227
- sialidase, see *neuraminidase*
- sphingomyelin phosphodiesterase, assay, elimination of haemoglobin interference in, 5D218
- steroid arylsulphatase, detection and assay, electroph. or spectroph., 5D219
- sulphamate sulphohydrolase, purification, liquid chrom., 5D213
- sulphite oxidase, interference by ampicillin with test for deficiency of, 2D281
- sulphite reductase, assay of ferredoxin-dependent, in leaf extracts, colorim., 5D203
- sulphiduronate sulphohydrolase, purification, liquid chrom., 5D213
- superoxide dismutase, assay of Mn-containing, in blood serum or urine, by enzyme immunoassay, 1D259
differentiation of Cu - Zn and Mn-containing, 3D290
- transketolase, assay in erythrocytes, use of regression analysis in evaluation of results in, 5D205
- α , α -trehalase, assay in soil, 1G17
- trypsin, assay, turbidim., comparison of sensitivities of methods for, 2D243
in duodenal fluid, comparison of methods for, 4D306
sepn. of inhibitor of, from ovalbumin, ion-exchange chrom., 3D235
- tyrosine 3-monooxygenase, assay, radiom., 4D313
- UDPacetylglucosamine 4-epimerase, assay, radiom., 1D280
- UDPglucose dehydrogenase, assay, fluorim., 5D197
- UDPglucosyltransferase, assay, by kinetic - fluorim. method, 5D210
- UDPglucuronosyltransferase, assay, radiom., 5D209
in liver tissue, spectroph., 4D316
- urease, assay in marine sand, as indicator of sewage contamination of beaches, 2H105
- urokinase, assay, by h.p.l.c. - radiom., 2D302
- uroporphyrinogen decarboxylase, assay, by h.p.l.c., 5D228
in biol. tissues, by h.p.l.c., 5D229
- uroporphyrinogen I synthase, assay, fluorim., 5D232
in erythrocytes, by h.p.l.c., 5D234
- uroporphyrinogen III cosynthetase, assay, fluorim. or spectroph., 5D233

- Enzymes, specific**, uroporphyrinogen III cosynthetase, assay—*continued*
in erythrocytes, by h.p.l.c., 5D234
- Enzymic analysis**, reactors for, in unsegmented flow-injection analysis, review, 1J15
- three-dimensional analysis of external quality assessment results in, 5A28
- Ephedrine**, detection with CCl_4 and copper turnings, 1E28
- detmn.**, fluorim., 1A13
- potentiom., ion-selective electrodes for, 6J156, 6J158
- spectroph., 3E13
- in blood serum or urine, by g.c. of P-containing deriv. - m.s., 2D104
- in pharmaceutical preparations, by h.p.l.c., 5E10
- in presence of amidopyrine, codeine and quinine, by isotachopheresis, 2E2
- sepn. of enantiomers of, by h.p.l.c. of cyclic oxazoline deriv., 5E15
- sepn. and detmn. of enantiomers of diastereoisomers of, by h.p.l.c., 2E17
- **hydrochloride**, detmn., by oscillograph. titration, 3E3
- non-aq. titrim., 5E3
- in pharmaceutical preparations, titrim., 5E13
- effect of temp. on u.v. spectrum of, 5E40
- identn. in expectorant tablets, by t.l.c., 2E66
- Epiandrosterone, dehydro-**, see *Androst-5-en-17-one*, 3 β -hydroxy-
- Epicholesterol**, sepn. from cholesterol, by t.l.c., 2D170
- Epicooprostanol**, detmn. in faeces, by g.l.c., 1D134
- sepn. from coprostanol, by t.l.c., 2D170
- Epinephrine**, see *Adrenaline*
- Epiline**, analysis of pentafluoropropionyl deriv. of, liquid chrom. - negative-ion chemical-ionisation m.s., 5J52
- Epoxide hydratase**, see *Enzymes, specific*, epoxide hydrolase
- Epoxide hydrolase**, see under *Enzymes, specific*
- Epoxides**, see *Oxirane derivatives*
- Equilin**, detmn. in blood serum, by g.c. of heptafluorobutyl deriv. - m.s., 2D70
- Erbium**, detmn., spectroph., 4B82
- with use of magnetic circular dichroism, 1B89
- in copper, flame photom., with sepn. by amalgam electrolysis, 6B36
- in presence of Sm, spectroph. - titrim., 4B80
- in yttrium oxide, emission spectrom., 2B62
- sepn. from La or Lu, magneto-paper electroph., 3B15
- Erbium, reagent for**, tetraethylenepentaminehepta-acetic acid, 4B82
- Ercalcidol**, detmn. in human milk, by h.p.l.c. - competitive protein-binding assay, 5D192
- Ergocalciferol**, detmn. in cod-liver oil, by h.p.l.c., 3F53
- in human milk, by h.p.l.c. - competitive protein-binding assay, 5D192
- , 25-hydroxy-, see *Ercalcidol*
- Ergocristine**, detmn. in *Claviceps sclerotium*, by t.l.c. - fluorodensitom., 1E23
- , dihydro-, detmn. in blood plasma, by h.p.l.c., 3D58
- Ergometrine**, detmn. in *Claviceps sclerotium*, by t.l.c. - fluorodensitom., 1E23
- Ergosterol**, detmn. in hydrocarbon-containing lipid mixtures, liquid chrom. - spectroph., 1D135
- Ergot alkaloids**, detmn. of hydrogenated, in blood plasma, by t.l.c., 6A5C
- Ergotamine**, detmn. in *Claviceps sclerotium*, by t.l.c. - fluorodensitom., 1E23
- in pharmaceutical preparations, by h.p.l.c., 5E10
- , dihydro-, detmn. in blood plasma, by h.p.l.c., 3D58
- Ergotoxin, dihydro-**, see *Co-dergocrine*
- Erucic acid**, detmn. in fats or fatty oils, comparison of methods for, 2F62
- in rapeseed oil, by g.l.c., 6F71
- Erythorbic acid**, see *Isoascorbic acid*
- Erythritol**, detmn., by g.l.c. of trifluoroacetylated *O*(-)-menthylloxime deriv. - m.s., 5D90
- Erythrocytes**, analysis of nucleotides in, by h.p.l.c., 1D232
- of phospholipids in, by t.l.c., 2D157
- assay of catechol methyltransferase in, radiom., 4D314
- of cholinesterase in, spectroph., 2D289
- of phosphoribomutase in, radiom., 6D289
- of porphobilinogen synthase in, fluorim., 5D231
- of proline dipeptidase in, colorim., 1D274
- of transketolase in, use of regression analysis in evaluation of results in, 5D205
- of uroporphyrinogen I synthase and uroporphyrinogen III cosynthetase in, by h.p.l.c., 5D234
- detmn. of cobalamins in, liquid chrom. - t.l.c. - bio-autogr., 4D302
- of elements in single, by PIXE, 3D19
- of fatty acids in lipid fractions from membranes of, by t.l.c. - g.c. of methyl esters, 4D161
- of ferritin in, by r.i.a., 3D259
- of glycosylated haemoglobin in haemolysates of, affinity chrom., 5D179
- of hypoxanthine and xanthine in, by h.p.l.c., sample storage for, 4D290
- of intracellular electrolytes in, flame photom., effect of sample storage at low temp. in, 5D16
- of O in, effect of perfluorochemical emulsion on performance of CO-Oximeter for, 2D57
- of phosphatidylcholine in membranes of, enzymic - spectroph., 2D163
- Erythrocytes**, determination—*continued*
- of porphyrins in, by h.p.l.c., 1D223
- of thioguanine nucleotide in, fluorim., 1D95
- identn. of levomepromazine metabolites in, by g.c. - m.s., 1D69
- macroscopic autoradiography of, with use of ^{14}C , 2D4
- Erythromycins**, sepn. and identn., by t.l.c., 3E25
- Essential oils**, analysis, by capillary g.c. and ^{13}C n.m.r., 4C92B
- by g.l.c., 1J79
- m.s. study of esters of aliphatic alcohols in, 6C15
- Esterases**, see under *Enzymes, specific*
- Ethacrynic acid**, h.p.l.c. study of stability of soln. of, 6E59
- Ethalfuralin**, sepn. from related herbicides, by g.c., 1G29
- Ethane**, detmn. in dimethylmercury, by g.l.c. or m.s., 5C25
- solubility data for, 1A32B
- , chloro-, detmn. in air, with Organic Vapour Monitor, 1C4
- in chloromethane, by BSI g.l.c. method, 5C11
- in tetraethyl-lead, by g.l.c., 2C72
- identn. and detmn. in tin tetrachloride, by g.l.c. - m.s., 3B95
- , 1,2-dibromo-, detmn. in fumigated cereals, by g.l.c., 4G24
- in grapefruit, lemons or oranges, by g.c., with clean-up using H_2SO_4 , 1G35
- , 1,2-dichloro-, detmn. in products of oxychlorination of ethylene, by g.l.c., 3C18
- , hexafluoro-, detmn. in photolysis products of hexafluoroacetone, by g.c., 5C20
- , iodo-, detmn. in dimethylmercury, by g.l.c. or m.s., 5C25
- , 1,1,1-trichloro-, detmn. in air, by g.l.c., 4H20
- with Organic Vapour Monitor, 1C4
- in products of oxychlorination of ethylene, by g.l.c., 3C18
- , 1,1,2-trichloro-, detmn. in products of oxychlorination of ethylene, by g.l.c., 3C18
- , 1,1,2-trichlorotrifluoro-, detmn. in air, by g.l.c., 4H20
- Ethane derivatives**, chlorofluoro-, see *Freons*
- Ethanediol**, analysis of products of ester exchange between dimethyl terephthalate and, liquid chrom., 1C48
- detmn. in blood plasma, by ultra-filtration - g.l.c., 1D102
- in blood serum, interference by propane-1,2-diol in, 4D129
- of borax and Na benzoate in, potentiom., 2C21
- sampling of, from air, using Amberlite XAD resins, 3H28
- , 3,4-dihydroxyphenyl-, detmn. of free and conjugated, in biol. fluids or brain tissue, enzymic - radiom., 3D157
- , 4-hydroxy-3-methoxyphenyl-, detmn., by g.c., internal standard for use in, 5D94
- in cerebrospinal fluid, by h.p.l.c., 4D192, 5D105
- Ethanediol derivatives**, sampling of, from air, using Amberlite XAD resins, 3H28
- Ethanethiol**, sampling and g.c. detmn. of, in air, 1H33
- Ethanol**, detection, with screen-printed multi-layer SnO_2 sensor, 6J12
- detmn., by flow-injection - enzymic method, 5J12
- enzyme electrode for, 2J175
- in air, semiconducting sensor for, 3J8
- in aq. mixtures, measuring 'stick' for, 5B137
- in blood, East German standard procedures for, 3D133
- in blood serum, by g.c., 4D128
- in breath, 2A1C
- in brewing materials, by h.p.l.c., 5F61
- in canned salmon, by head-space g.c., 4F41
- in drugs or drug formulations, by g.c., 1E78
- in gas mixtures, automated spectroph., instrument for, 1J7
- with reagent-impregnated satin strip, 6C14
- in gasoline, by g.c., 2C66
- in gasoline blends, by g.c., 1C78
- in methanol, by g.c., 1J85
- in tetraethyl-lead, by g.l.c., 2C72
- in urine, by head-space g.l.c., 6D3
- in wine, liquid chrom. - triple-pulse amperom., 5F68
- of migration of components of packaging materials into, use of correlations in, 1F13
- of H_2O in, spectroph., 5C13
- identn. of origin of, by natural-abundance ^2H n.m.r., 2C19
- sepn. from carbohydrates and sugar alcohols, by h.p.l.c., 5C17
- , *N*-amino-*NN*-dimethylamino-, see *Hydrazinium ion*, 1-(2-hydroxyethyl)-1,1-dimethyl-
- , chloro-, detmn. in air, spectroph., 4H21
- , 2-chloro-, detmn. in beeswax, honey or pollen, by g.l.c., 5F22
- , diethylamino-, detmn. in brain tissue, by h.p.l.c., 3D104
- , 1-diethylamino-2-(indol-3-yl)-, detection in *NN*-diethyltryptamine, 1E59
- , 2-(indol-3-yl)-, detection in *NN*-diethyltryptamine, 1E59
- , 2-(indol-3-yl)-1-(1-pyrrolidinyl)-, detection in 1-[2-(indol-3-yl)ethyl]-pyrrolidine, 1E59
- , *N*-nitrosoimino-, detection in cosmetics, colour reaction for, 5C71
- Ethanone**, 1-(5-tetradecyloxy-2-furyl)-, see *Furan*, 2-acetyl-5-(tetradecyloxy)-
- Ether**, allyl stearyl, preparation and analytical data for, 4C86
- , *t*-amyl methyl, detmn. in gasoline, by g.c., 2C66
- , *t*-butyl methyl, detmn. in gasoline, by g.c., 2C66
- i.r. spectrom., 4C50
- , 2-(chloromethanesulphonamido)diphenyl, see *Methanesulphonamide*, 1-chloro-*N*-(2-phenoxyphenyl)-

Ether—continued

- , **dimethyl**, detmn. with its impurities, by g.c., 6C17
in chloromethane, by BSI g.l.c. method, 5C11
of impurities in, by g.c., 6C16
- , **stearyl vinyl**, preparation and analytical data for, 4C86
- , **2,3,3',4'-tetramethyldiphenyl**, sepn. from related compounds, by g.l.c., 5C34
- , **3,3',4,4'-tetramethyldiphenyl**, sepn. from related compounds, by g.l.c., 5C34
- Ethers**, detection, by h.p.l.c., 1C110
identn., by chemical-ionisation m.s., 2C7
by g.c., 3C1
in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
- , **nitrodiphenyl**, characterisation and identn., by pattern recognition using electrochem. data, 4C33, 4C34
- , **thio**-, see *Sulphides, organic*
- Ethimazole**, detmn. in blood serum, by h.p.l.c., with pre-concn. on micro-column, 1D57
with its metabolites, by h.p.l.c., 6D99
in blood serum or saliva, with its metabolites, by h.p.l.c., 4D108
- Ethinylestradiol**, see *Oestradiol, ethynyl-*
- Ethiofencarb**, detmn. in fruit or vegetables, by g.c., 6G31
- Ethonium**, detmn., spectroph., 1E71
- Ethopabate**, detmn. in chicken tissues, by h.p.l.c., 4D117
- Ethosuximide**, detmn., by EMIT assay, logit - log. calibration curves in, 1D52
in blood plasma, by h.p.l.c., 5D46
in blood serum, by g.l.c., 2D75
by h.p.l.c., 2D77, 3D77
- Ethoxyquin**, detmn. in fruit, by g.l.c., by t.l.c., fluorim. or spectroph., 5G30
in spices, by t.l.c. - fluorim., 6F51
- Ethyl biscoumate**, detmn. in blood plasma, by h.p.l.c., 3D124
- Ethylamine**, detection, colour reaction for, 6C23
detmn. in presence of other primary amines, by h.p.l.c. of phthalaldehyde deriv., 5C21
- Ethylene**, analysis of products of oxychlorination of, by g.c., 3C18
detmn. in air, by g.c., 6H22
- , **1,1-dichloro**-, detmn. in products of oxychlorination of ethylene, by g.l.c., 3C18
- , **1,2-dichloro**-, detmn. in products of oxychlorination of ethylene, by g.l.c., 3C18
in water, cross-contamination occurring during purge-and-trap concn. and sample storage for, 4H70
- , **1,1-dichloro-2,2-bis(4-chlorophenyl)**-, see *DDE*
- , **tetrachloro**-, detmn. in air, by g.l.c., 4H20
in gas mixtures, preparation of gas-cylinder standards for use in, 4J14
identn. and detmn. in tin tetrachloride, by g.l.c. - m.s., 3B95
- , **trichloro**-, detmn. in air, by g.l.c., 4H20
in fumigated cereals, by g.l.c., 4G24
identn. and detmn. in tin tetrachloride, by g.l.c. - m.s., 3B95
- Ethylene dibromide**, see *Ethane, 1,2-dibromo-*
- Ethylene glycol**, see *Ethanediol*
- Ethylene oxide**, see *Oxirane*
- Ethylenediamine**, detmn. in blood plasma or urine, by h.p.l.c., 4D107
of migration of, from polymeric coatings, review, 6F18
- , **N-(4-t-butyl-2,6-xylylacetate)**-, detmn. in xylometazoline hydrochloride soln., spectroph., 3E52
- , **N,N-dimethyl-N'-(2-pyridyl)**, derivatives, sepn. from mepyramine maleate and methapyrilene and from each other, by h.p.l.c., 6J31
- , **N-(6-isopropyl-m-tolylacetate)**-, detmn. in presence of thymazoline, by t.l.c. - spectroph., 3E53
- Ethylmorphine**, detmn. in blood, stomach contents or urine, by g.c., 6D55
- **hydrochloride**, detmn. of impurities in, by t.l.c., 2E7
- Ethynediol diacetate**, detmn., by g.c. of 3,5-diene deriv., 6E3
- Etidocaine hydrochloride**, differentiation of polymorphs of, i.r. spectrom., 3E8
- Etilefrine hydrochloride**, detmn. in pharmaceutical preparations, by method of orthogonal functions, 4E53
- Etodolac**, detmn. in blood serum, by h.p.l.c., 3D87
- Etomidate**, detmn. in aq. soln., blood or blood plasma, by g.l.c. or h.p.l.c., 4D82
- Etoposide**, detmn. in blood plasma, with its metabolites, by h.p.l.c., 6D124
- Europium**, concn., by Donnan dialysis, 1B25
detection of ^{153}Eu in floc samples, 3H43
detmn., fluorim., quenching effects in, 1B90
spectroph., 4B82
in presence of other lanthanoids, Sc and Y, automated spectroph., 3B69
of Te, spectroph., 3B70
in rare-earth-metal oxide mixtures, by a.a.s., 4B84
in yttrium oxide, emission spectrom., 2B62
of ^{152}Eu , by $4\pi\beta - \gamma$ spectroscopic coincidence method, 1B91
ion-exchange study of, 1B98
sepn. from Fe in HNO_3 medium, using solid extractant based on mixed-radical phosphine oxide, 3B71
of isotopes of, by h.p.l.c. or t.l.c., 6B69

Europium—continued

- solvent extraction of, with 4-acyl-3-methyl-1-phenylpyrazolin-5-ones in presence of triethylphosphine oxide, 5B79
with crown ethers, 3B66
with tri-n-octyltrifluoroacetone in presence of quinolines, 5B78
- Europium, reagents for**, tetraethylenepentaminehepta-acetic acid, 4B82
2-thenyltrifluoroacetone - triethylphosphine oxide, 1B90
xylene orange, 3B70
- Evolved-gas analysis**, see under *Thermal analysis*
- Exhaust gases**, analysis of soot from, 3C80
detmn. of N oxides in, ion chrom., 2H15
of PAH in, by t.l.c., 5A2C
- , **car**-, analysis of aldehydes in, by h.p.l.c. of azines - fluorim., 3H30
catalyst systems for control of pollutants in, 2A3C
detmn. of hydrocarbon types in, by chemical-ionisation m.s., 6C51
of low-mol.-wt. aliphatic carbonyl compounds in, by g.l.c. of 2,4-dinitrophenylhydrazones, 2C73
of PAH in, 5C52
sepn. and detmn. of PAH in, by g.l.c., 5C54
- , **diesel-engine**, measurement and control of particulate in, 3H103B
sepn. and identn. of PAH in particulate in, by t.l.c. - g.c. (or t.l.c. - g.c. - m.s.) 5H35
- Exo-1,4- α -D-glucosidase**, see under *Enzymes, specific*
- Explosives**, analysis, by h.p.l.c. - negative-ion chemical-ionisation m.s., 1C126
of mixtures of, by h.p.l.c. - m.s., 2C127
characterisation, review of chrom. and n.m.r. techniques for, 2C129
detection on hand-swabs, by h.p.l.c., 5C90
detmn. of diphenylamine and nitrated diphenylamines in, by h.p.l.c., 6C89
sampling of, from water, evaluation of sorbents for, 5H88
sepn. and detmn., by g.c., 2C128
by h.p.l.c., 3C120
- Eye tissue**, assay of glutamate decarboxylase in retina, or in sub-retinal intercellular fluid, by ion-exchange t.l.c. - radiom., 2D304
of UDPglucose dehydrogenase in corneal, fluorim., 5D197
detmn. of elements in, by PIXE and XRF, 1A1C
of retinal and 3-dehydroretinal isomers in retina, by h.p.l.c., 3D281
sepn. of proteins from lenses, gel chrom., artefactual peak in, 5D154

F

- Faeces**, detmn. of flunarizine in, by g.l.c., 3D132
of free and esterified sterols in, by g.l.c., 1D134
of 3 α -hydroxy-bile acids in, enzymic, 1D148
of iohexol in, by h.p.l.c., 6D127
of phytic acid in, by h.p.l.c., 1F16
of ^{66}Zn -to- ^{67}Zn ratio in, using plasma ion source, 2B98
identn. of maneb metabolites in, by t.l.c., with use of γ -irradiation technique, 6D140
identn. and detmn. of pencycuron metabolites in, by g.c. of methyl deriv. - m.s. and g.l.c., 1D110
sepn. and detmn. of sterols in, by t.l.c. - g.l.c., 4D171
- Fangchinoline**, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
- Farnesyl acetate**, detmn. in plants, soil or water, by g.l.c., 6G39
- Fats and fatty oils**, see also *Vegetable oils*
analysis, apparatus for wet-ashing for, 5C3
review, 6F69
of fatty acids in, by trans-esterification using trimethylsulphonium hydroxide - g.l.c., 5F70
of samples used for feeding small animals, 4G11
of thermal-decomposition products of hydroperoxy cyclic peroxides in, by g.c. - m.s., 5F72
analytical techniques used in process control of edible, review, 2F60
BSI sampling techniques and instruments for, 1C91
detection of anilides in, by t.l.c., 4F70
of aniline and anilides in, by t.l.c., 4F69, 5F76
detection and identn. of antioxidants in, by BSI t.l.c. method, 4F76
detmn. in cocoa powder, near-i.r. reflectance spectroph., 1F40
in milk, effects of $\text{K}_2\text{Cr}_2\text{O}_7$ and sample-storage time in, 2F25
in milk powder, with InfraAnalyzer 400, 6F37
in plants, use of standard samples for control in, 1G18
of alkali-metal soaps in, titrim., 6F70
of antioxidants in, collaborative study of h.p.l.c. method for, 5F75
of As, Br, I and Se in, by a.a.s., 4F68
of BHA, BHT and t-butylquinol in, by BSI g.l.c. method, 5F74
of crucic acid in, comparison of methods for, 2F62
of insol. impurities in, BSI method for, 1C93
of polar compounds in frying, collaborative study of, 6F73
of H_2O in, BSI entrainment method for, 1C92
evaluation of quality of used frying, by t.l.c. - spectroph., 6F74
viscosim., 6F72
identn. of Anoxomer in, i.r. spectroph., 5F18
particle size analysis of droplets of, spectroturbidim., 5A5C
sepn. of triglycerides in, by h.p.l.c., 4F26
sepn. and detmn. of tocopherols in, by h.p.l.c., 5F73

Fatty acids, see also *Carboxylic acids*

- analysis, by g.c. of t-butyltrimethylsilyl esters - m.s., 2D150
 by g.c. of cyclohexylmethyl or naphthylmethyl esters - m.s., 4C19
 by t.l.c., recovery of material from plates for, 4D213
 in cosmetics, by t.l.c. on Chromarods, 2C93
 of bacterial, by g.l.c. of methyl esters, derivatisation method for, 1D120
 of fish-oil, by g.c. of methyl esters - m.s., 1F56
 of isomeric, by h.p.l.c. of naphthacyl or phenacyl deriv., 1C28
 of lipid, by hydrazinolysis - g.l.c., 2D153
 of milk, by g.c., formic acid trap for use in, 4F46
 by g.c. of TMS deriv. - m.s., 2D138
 of mixtures of, by g.c., review, 1J67
 detection in samples from patients with various diseases, by g.l.c., review, 6D2
 of branched-chain, in sputum, by g.l.c. of methyl esters - m.s., as indication of mycobacterial infection, 1D119
 detmn., potentiom., with Ca^{2+} -selective electrode, 4A18
 semi-automated, 2D136
 in air-borne particulate, liquid chrom. - m.s., 2H31
 in brewing materials, by g.c., review, 6F58
 in lipid fractions from blood plasma, blood platelets or erythrocyte membranes, by t.l.c. - g.c. of methyl esters, 4D161
 of free, in bacteria, by g.l.c., 6D158
 in blood plasma, fluorim., 2D135
 in blood-plasma lipids, by field-desorption m.s., 2D155
 in blood serum, by h.p.l.c. of naphthyl deriv., 3D158
 enzymic - spectroph., 4D154
 in brain- or liver-tissue lipids, by t.l.c., 3D171
 in castor oil, i.r. spectroph., 6C87
 in cheese, by g.l.c., methylation method for, 1F32
 in lipid mixtures, by g.c., methylation method for, 2D137
 in myocardium, by g.c. of methyl esters - m.s., 2D139
 of iodine value of, semi-micro titrim., 4F64
 of metals in still-bottom residues, by a.e.s., 2C34
 of position isomers, conjugated unsaturated bonds and composition of, review, 4F65
 of profiles of, in fats or oils, by trans-esterification using trimethylsulphonium hydroxide - g.l.c., 5F70
 of *trans*-, in butter, comparison of methods for, 4F51
 in milk fat, by AOCS method, 6F39
 isolation, characterisation and detmn. of hydroxy-, by h.p.l.c., review, 2D148
 sepn., by g.c. of methyl esters, 1J76
 by g.l.c. of TMS deriv., 6F5
 by h.p.l.c. of pentafluorobenzyl esters, 2D133
 ion chrom., 1H56
 of free, from other liver-tissue lipids, by t.l.c., 3D170
 sepn. and detmn., by h.p.l.c. of free acids or of their methyl esters, 2D134
 by h.p.l.c. - dielectrom., 1J53
 by t.l.c. of phenacyl deriv. - u.v. spectroph., 5D98
 in water, by h.p.l.c. - m.s., 3H80
 — **anilides**, detection in oils, by t.l.c., 4F69, 4F70, 5F76
 — **esters**, analysis in cosmetics, by t.l.c. on Chromarods, 2C93
 —, **methyl**, characterisation, by m.s., 2C36
 detmn. in cold-rolling oils, by h.p.l.c., 6C58
 sepn., by t.l.c., 4D155
 —, **vinyl**, sepn., by g.c., 3C35
Feeding-stuffs, see also *Silage*
 analysis of forage, use of standard samples for control in, 1G18
 of lupin alkaloids in, by g.c. and g.c. - m.s., 5G22
 of oils for small animals, 4G11
 of residual hydrocarbons in yeast, by g.l.c., 5G24
 detection of acetylated slaframine and lincomycin in, by t.l.c., 1G22
 of fusariotoxins in, by g.l.c. of TMS deriv., 5G10
 of PCB and tetrachlorodibenzofuran in, by g.c. - m.s., g.c. - m.s. - m.s. or m.s. - m.s., 4D135
 detection and detmn. of emodin in, by t.l.c. and h.p.l.c., 3G24
 detection and h.p.l.c. detmn. of melamine in, 3G25
 detmn. of 2-acetamidofluorene in laboratory diets, by h.p.l.c., 2G7
 of aflatoxin B₁ in, by t.l.c., 5G19
 of Cd in plant, automated spectroph., 5F4
 of Ca, P and protein in, by flow-injection - spectroph. method, 5G17
 of carbadox and pyrantel tartrate in, by h.p.l.c., 5G23
 of Cl⁻ in, biamperom., 6G16
 of chlorophyllene citrate, thenyldiamine hydrochloride and tripelen-namine hydrochloride in, by h.p.l.c., 4G12
 of elements in fodder, by XRF, 1G19
 of ethoxyquin in, by t.l.c. - fluorim., 6F51
 of glucosinolates and their breakdown products in, review, 5G6
 of hydroxycinnamic acids in forage, 5A2C
 of lysine in, by oxidative hydrolysis - ion-exchange chrom., 6G22
 of malonaldehyde in rodent, by h.p.l.c., 3G22
 of menadione in, by h.p.l.c., 3G26
 of methimazole in, by t.l.c. - spectroph., 6G21
 of methionine and methionine sulphoxide in proteins of, by g.c., as thiocyanatomethane, 1G21
 of N in, automatic Kjeldahl analyser for, 4F7
 of taurine in, with α -amino-acid analyser, 1F27

Feeding-stuffs, determination—*continued*

- of tetra-alkyl-lead compounds in, by a.a.s., 5H5
 of Ti in cereals, differential pulse polarogr., 6G3
 of vitamin D compounds in, collaborative study of h.p.l.c. method for, 6G20
 of xanthomegnin in, by h.p.l.c., 5G21
 evaluation, with near-i.r. reflectance spectrometer, 1G20
 identn. and detmn. of pesticides and industrial chemicals in, by g.c. - m.s., review, 5F19
Fehling's reagents, shelf life of soln. of, 2F59
Feldspar, detmn. of P in, emission spectrom., 6B196
Fenchone, detmn. in plants, by g.c. - m.s., 6D156
 of (—), by g.c. - circular dichroism spectrom., 6J68
Fendiline, analytical data for, 4E62
 — **hydrochloride**, analytical data for, 4E62
 differentiation of polymorphs of, i.r. spectrom., 3E8
Fenitrothion, detmn. in rodenticide baits, by h.p.l.c., 2G21
 of residues of, by g.l.c. - isolation and clean-up methods for, 6G36
Fenoprop, detmn., low-temp. phosphorim., 3G31
 in soil, by g.l.c., 2G9
Fenquzone, detmn. in blood plasma or urine, by g.l.c. of tetramethyl deriv., 3D128
Fensulfothion, detmn., by h.p.l.c., collaborative study of, 5G35
Fentanyll, detmn. in blood plasma, by g.l.c., 3D86
Fentanyl derivative, detmn. of structure of, by tandem m.s., 1J172
Fenthion, detection in biol. materials and purification, by t.l.c., 4D137
Fenvalerate, detmn. in sea-water, by g.l.c., 2H92
 on woollen cloth, by g.l.c., 5C78
Fermentation biotechnology, 1D281B
Ferricyanide, detmn., coulom. or voltamm., 6J164
Ferrites, analysis, chemical and instrumental methods for, 5B144
 use of n.a.a. method for control of chemical composition of, 5B145
Ferritin, detmn., by enzyme immunoassay, effect of temp. in, 1D211
 in blood plasma, immuno-radiom., effect of sample-collection method in, 6D244
 in blood serum, by enzyme immunoassay, 3D258, 6D245
 by sandwich enzyme immunoassay, 4D258
 comparison of r.i.a. kits for, 6D242
 immuno-radiom., 6D243
 quality-control material for, 3D50
 in blood serum or urine, by enzyme immunoassay, 1D205
 in erythrocytes, by r.i.a., 3D259
Ferrochelatase, see under *Enzymes, specific*
Ferrocyanide, detmn., potentiom., with hydantoin deriv. in non-aq. media, 1A16
 voltamm., 6J163
Ferron, see *Quinoline-5-sulphonic acid, 8-hydroxy-7-iodo-*
Ferrous alloys, see *Iron alloys*
Fertilisers, detmn. of ammonium-, nitrate- and urea-N in, gas-phase mol.-absorption spectroph., 5G15
 of Sb or As in, by alkali fusion - iodim., 6C6
 of elements in, emission spectrom., 2G5
 of guanidine in, spectroph., 3G18
 of Fe, Mg and Zn in, comparison of methods for, 5G14
 of PO_4^{3-} in, spectroph., 1B118
 of urea, methylenediurea and dimethylenetriurea in, by h.p.l.c., 5G16
 sepn. and detmn. of radionuclides in, review, 3G17
Fibres, analysis, applications of differential scanning calorimetry in, review, 4C77
 of surfaces of, X-ray photoelectron spectrom., 3A1C
 characterisation, by pyrolysis - capillary g.c., 6C86
 detmn. of degree of cross-linkage in phenol - formaldehyde, by pyrolysis - g.l.c., 3C106
 of HCl in polyamide, potentiom., 3C105
 of S in free form in synthetic, components of systematic error in iodim. method for, 1C106
 identn. of textile, thermogravim., 1C100
 measurement of dusts of, review, 5H6
Fibrinogen, detmn. in blood plasma, automated turbidim., with Du Pont *aca* analyser, 4D257
Fibrinopeptide A, detmn., by r.i.a., 3D229
Field-effect transistors, gas- and ion-selective sensors using, 1J189
 ion-selective, review, 6J132
 miniature ion sensor incorporating, 2J162
 miniature K⁺- and Na⁺-sensitive, 3D25
Field-flow fractionation, sepn. and characterisation of macromolecules by, 6A3C
Field-ion microscopy, applications in metal science of, review, 2B2
Filters, filtration properties of large-pore-size Nuclepore, 2J6
Filtration, modification of centrifugal device for, for direct filtration into autosampler phial, 4J18
Fingernails, detmn. of elements in, using three-electrode plasmatron, 6H1
Fire-retardant materials, g.c. study of polybrominated biphenyl, 3C121
 thermal analysis of SbO₃ - organohalide-based, with a.a.s. detection of evolved species, 1C118
Fish oils, analysis of fatty acids in, by g.c. of methyl esters - m.s., 1F56
Fish tissues, see also *Salmon*
 analysis of carotenoids from, by h.p.l.c., 1D220
 bibliography on microsc. studies of, 6F28

Fish tissues—continued

- detection of tetrodotoxin in, continuous analyser for, 5F39
 detmn. of aliphatic secondary amines in products of, by h.p.l.c., 1F20
 of amino-N produced by action of proteolytic enzymes in, spectroph., 2F23
 of biogenic amines in, ion-exchange chrom., 4F9
 of Cd in, by a.a.s., 4F5
 of Cd, Cu, Pb and Se in, differential pulse stripping voltamm., 4D23
 of camphchlor and chlordan in, by g.l.c. or g.l.c. - m.s., 3D143
 of chloramphenicol in, by h.p.l.c., 6F13
 of chlorinated hydrocarbons in, by g.l.c., 1H75
 of chlorinated hydrocarbons and PCB in eggs, by g.c., 1D103
 of ciguatera in, by r.i.a., 4D254
 of cystine/cysteine in meal of, by g.l.c., 5G18
 of diaryl phosphates in, by g.l.c., 6D142
 of elements in, by a.a.s., automated system for, 2H55
 review, 4H39
 of heavy metals, organochlorine pesticides, PCB and halogenated hydrocarbons in, 5F40
 of histamine in, or in products derived therefrom, by h.p.l.c., 4F37
 of H₂O₂ in, colorim., elimination of interference by lipid peroxides in, 2F1
 of H₂O₂ in products of, spectroph., 6F12
 of Hg in different chemical forms in, by a.a.s. - g.l.c., 4F36
 of nalidixic, oxolinic and piromidic acids in, by h.p.l.c., 4F38
 of NO₂ in roe, spectroph., 3F5
 of nitrofurantoin deriv. in, by h.p.l.c., 2F24
 of PCB in eels, 3H1
 of polychlorinated dibenzo-*p*-dioxin or dibenzofuran deriv. in, by g.c. or g.c. - m.s., 2G4
 of rancidity of, evaluation of 2-thiobarbituric acid test for, 5F38
 of Se in, differential pulse polarogr., 4D38
 of tetrachlorodibenzo-*p*-dioxin in, by g.c. - m.s. - m.s., 2H3
 inter-laboratory study of, 6F32
 of tetrodotoxin in, by isotachopheresis, 6F31
 of SSS-tributyl phosphorothioate in, by g.l.c., 5H94
 of volatile compounds in, by g.l.c. - m.s., purge-and-trap method for, 3H72
 of volatile org. compounds in, by vacuum distillation - g.c. - m.s., 5F41
 differentiation of species of, comparison of methods for, 2F22
 identn. and detmn. of organochlorine pesticides and PCB in, liquid chrom. - g.c., 2F21
 measurement of changes in freeze-stored, review, 3F27
 sepn. of nucleotides and related substances from, by h.p.l.c., 4F40
 sepn. and detmn. of proteins in, gel electroph. - densitom., 4F39
- Flavomycin**, see *Bambermycin*
- Flavone, heptamethoxy-**, sepn. from other citrus flavones, by h.p.l.c., 5F12
- Flavone glycosides**, detection, by t.l.c., 3D265
- Flavonoids**, analysis, by h.p.l.c., review, 3F7
 detection, by t.l.c., 3D265
 identn. and detmn. in preparations of medicinal plants, comparison of methods for, 3E19
 sepn. from anthocyanidins, anthocyanins and related substances, by h.p.l.c., 4D270
 of citrus polymethoxylated, by h.p.l.c., 5F12
 —, **2-hydroxy-**, sepn., paper chrom., with detection by CrCl₃ soln., 1C12
- Flavour compounds**, analysis, by m.s., automated, 2C91
 identn. in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
- Flecainide**, detmn. in blood plasma or urine, by h.p.l.c., 3D114
- **acetate**, detmn. in blood plasma, fluorim., 1D88
- Flour**, assay of α -amylase in malted, comparison of methods for, 4F29
 detection of chlorine dioxide treatment of, by g.l.c. analysis of chlorinated fatty acids, 3F20
 of chlorine treatment of, by g.l.c. analysis of chlorinated fatty acids, 3F19
 detmn. of ash elements, gluten and protein in, near-i.r. spectrom., 1F17
 of elements in, by n.a.a., after liquid-chrom. removal of Na, 1D25
 by XRF, 6F25
 of phytic acid in, indirect complexom., 5F28
 of starch in, enzymic - electrochem., 3F14
 enzymic - electrochem., comparison of dispersion methods for, 3F15
 of uric acid in, automated spectroph., as indication of degree of insect defilement, 5F29
 identn. and detmn. of dinitrophenol pesticides in, gel chrom. - g.l.c. of methyl ethers, 3G40
 particle size analysis, by laser-light scattering, 4F2
- Flow-injection analysis**, amperom. detector for, 6J171
 applications of computers in automated, 6A25
 of strongly reducing agents in, 1A8
 automation of wet-chemical procedures using, 2J10
 bio-analytical potential of, 2D28
 bubble electrode as detector for use in, 6J160
 chemiluminescence reagents for use in, 6D209
 continuous-flow kinetic techniques in, 2J9
 enzyme reactors in unsegmented, review, 1J15
 gradient techniques and hydrodynamic injection in, review, 1J9
 monitoring of chemiluminescence reactions by, review, 6J18

Flow-injection analysis—continued

- optimisation of peroxidase immobilisation and of design of packed-bed enzyme reactors for, 1J17
 optimisation of systems for, 1J10
 review, 3J11
 selectivity in, 5J15
 system for, incorporating F⁻-selective electrode, 1J13
 with photom. detection, constructed from readily available components, 1J12
 use of a.a.s. in, review, 1J117
 using immobilised enzyme reagent, 5J12
 using ICP emission spectrometer as detector, generalised standard-addition method in, 1J130
 vibrating-wire electrode as amperom. detector for, 5J13
 with bilayer lipid-membrane detector, 5J14
 with chemiluminescence detection, 2D9
- Fluanisone**, detmn. in urine, by g.c. of acetyl deriv. - m.s., 3D91
- Flucytosine**, detmn., alkalim., argentim. or gravim., 4E71
- Fludrocortisone acetate**, detmn. in pharmaceutical preparations, spectroph., 5E26
- Flue gases**, see under *Waste gases*
- Flumecinol**, detmn., spectroph., 6E3
 in blood plasma or saliva, by g.l.c., 4D125
- Flunarizine**, detmn. in biol. fluids, by g.l.c., 3D132
- Flunitrazepam**, sepn. from related compounds, by h.p.l.c., 6E41
- Fluocinolone acetonide acetate**, see *Fluocinonide*
- Fluocinonide**, detmn. in pharmaceutical preparations, by h.p.l.c., 1E42
 automated, 3E4
 spectroph., 5E26
- Fluoranthene**, detmn. in presence of other PAH, by t.l.c. - h.p.l.c., 3H77
 —, **amino-**, detection in h.p.l.c. eluates, by chemiluminescence method, 5C45
- Fluorene, 2-acetamido-**, detmn. in laboratory diets, by h.p.l.c., 2G7
 —, **NO-(β -D-glucuronide)**, synthesis of, and analytical data for, 5D8
- Fluoride**, detmn., by flow-injection - potentiom. method, using ion-selective electrode, 1J13
 potentiom., dynamic response of ion-selective electrode for, 6H47
 effect of experimental conditions on limit of rectilinear response of ion-selective electrode for, 3J141
 spectroph., 3B67, 5H79
 in biol. fluids, potentiom., with ion-selective electrode, 6D43
 in caesium iodide, potentiom., with ion-selective electrode, with pre-concn. by directional crystallisation, 1B21
 in foods, potentiom., with ion-selective electrode, 2F3
 in presence of other anions, ion chrom., on dynamically coated columns, 6B20
 without suppression, 6B19
 in volcanic gases, 6H8
 in water, automated ion chrom., 5H83
 potentiom., with ion-selective electrode, complexing agent for use in, 3B127
 potentiom. or spectroph., 5H80
 of gaseous and particulate, in air, 2A2C
 monitoring of exposure to, 2A1C
 selective sorption of, on in org. ion exchanger, 1B145
 sub-stoichiometric pptn. of, with La³⁺, 6B139
- Fluorimetry**, analysis of gases by, with laser excitation, apparatus for, 6J8
 cross-correlation analysis of spectra in, 3J87
 detmn. of quantum yields of fluorescence by optimising fluorescence intensity, 4J94
 graphical representation of data in, with use of microcomputers, 1A27
 nl cuvette cell for, 1J132
 rotating-cell system for correction of primary and secondary absorption in, 1J133
 standards for ns decay-time measurements, 1J105
 use of immobilised fluorogenic ligands in, 5B4
 with laser excitation, cuvette for, permitting simult. photoacoustic and two-photon photo-ionisation measurements, 2J127
 microprocessor-controlled detection system for, 1J134
 with laser excitation at low temp., 6J99
- Fluorine**, detmn., emission spectrom., effect of N in, 2J118
 in aluminium alloys, by n.a.a., 6B61
 in aluminium fluoride, by XRF, 6B62
 in biol. materials, emission spectrom., 2D33
 in blood plasma or blood serum, by open ashing technique, 4D41
 in coal or oil shale, by O-bomb combustion - ion chrom., 2B167
 in environmental materials, by combustion - potentiom., with ion-selective electrode, 3H6
 in fluorochemical-treated fabrics, by n.a.a., 1C103
 in human milk, by ashing - diffusion method or potentiom., with ion-selective electrode, 3D45
 in org. compounds, see under *Organic elementary analysis*
 in vitreous crystallites, potentiom., with ion-selective electrode, 5B135
- Fluorine compounds**, characterisation in blood plasma, by g.c., 2D103
 detmn. in biol. fluids, limitations of Na-fusion method for, 2D65
- Fluorite (mineral)**, detmn. of elements in, by XRF, review, 4B172
 of P in, BSI spectroph. method for, 5B177
- Fluorocarbons**, sepn. of long-chain, by g.l.c., 6C12
- Fluoro-immunoassay**, chlorophylls and porphyrins as probes for, 6D10

Fluoro-immunoassay—continued

- review, 1D10
- time-resolved fluorimeter for use in measurements using lanthanoid chelates as labels, 2J123
- Fluorometholone**, detmn. of purity of, by h.p.l.c., 3E35
- Fluorouracil**, detmn., by t.l.c. - densitom., 4D121
- by t.l.c. - fluorim., 4D122
- in blood plasma, u.v. spectroph., 3D120
- Fluorspar**, see **Fluorite**
- Fluphenazine**, detmn. in blood plasma, by high-performance t.l.c. - fluorim., 3D92
- Flurazepam**, detmn. in blood plasma with its metabolites, by h.p.l.c., 4D80
- sepn. from related compounds, by h.p.l.c., 1D71
- Fly ash**, analysis of particles of, with laser micro-probe mass analyser, 1A1C
- with proton micro-beam, 5A4C
- of surfaces of, X-ray photoelectron spectrom., 3H10
- certified reference material, 5A18
- comparison of in-plume- and in-stack-collected particles of, 4H5
- detmn. of elements in, by a.a.s., 6B188
- by lithium borate fusion - a.a.s., 4B10
- comparison of methods for, 1B191
- of Pb in, by isotope dilution - m.s., 5B104
- of S speciation in, by XRF, 6B187
- particle size analysis of pulverised, 5A5C
- Foam fractionation**, of polymer mixtures in non-aq. solvent system, 6A3C
- α -Foetoprotein**, detmn., by enzyme immunoassay, effect of temp. in, 1D211
- by sandwich enzyme immunoassay, 4D263
- immuno-radiom., 1D210
- in amniotic fluid, comparison of immunoassay methods for, 2D253
- in amniotic fluid or blood serum, effects of freezing and thawing and of sample-storage conditions in, 5D169
- in blood serum, by enzyme immunoassay, 3D260
- in blood-spot samples on filter-paper, immuno-radiom., 4D262
- of [³⁵S]methionine incorporation into, during translation of messenger RNA, rocket immuno-electroph., 5D170
- Folate**, detmn., selection of serum albumin reagent for, 5D165
- Folate co-factors**, detmn. in biol. tissues, by h.p.l.c., 5D190
- Folic acid**, detmn., spectroph., 1E11
- identn., i.r. spectrosc., 2E4
- secondary-ion m.s. study of analogues of, 4D300
- Follicle-stimulating hormone**, detmn., by r.i.a., 6D237
- Folpet**, detmn. in aerosol formulations, by h.p.l.c., 5G33
- Foods**, analysis, applications of enzymes in, review, 1F2
- applications of h.p.l.c. in, reviews, 4F3, 5F6
- by g.c., review, 1J67
- by pyrolysis - g.c., review, 2J56
- immunoturbidim. methods in, 6F6
- instrumentation for, 4F1
- reviews, 3F1, 4A2
- of org. acids in, by h.p.l.c., 2J44
- analytical aspects of chemical modifications of proteins in, review, 3F8
- of drug-containing, used in toxicology studies, 4E89
- control of contamination of, 1F1
- detection of geniposide in, by h.p.l.c. or t.l.c., 4F14
- detection and detmn. of Se in, by t.l.c. and fluorim., 4F31
- detmn. of aflatoxin B₁ in, by t.l.c. - densitom., 6F11
- of ascorbic acid in, by 2,2'-bipyridyl method, 1F9
- by h.p.l.c., review, 1F8
- of ascorbic acid in commercial liquid, titrim., 3E31
- of ascorbic acid in plant, by h.p.l.c., 5F54
- of benzoic acid in, second-deriv. u.v. spectrosc., 5F16
- of benzoic acid and sorbic acid in, by g.l.c., 5F15
- by g.l.c. of TMS esters, collaborative study of, 5F14
- of benzo[*rs*]pentathene in, liquid chrom. - fluorim., 4F16
- of biogenic amines in, with amino-acid auto-analyser, 2F4
- of Cd in, by a.a.s., 4F5, 5F3
- of Cd in plant, automated spectroph., 5F4
- of Cd, Cu, Pb and Sn in, polarogr., 5F2
- of C isotopes in, review, 2F2
- of α - and β -carotenes in, by h.p.l.c., 5F53
- of chloramphenicol in, by h.p.l.c., 6F13
- of Cr^{VI} and Cu^{II} in, differential pulse polarogr., 3F3
- of Cr and Ni in, differential pulse polarogr., and of Cu in, by a.a.s. or differential pulse polarogr., 5F1
- of cyclamate and saccharin in, by isotachopheresis, 3F9
- of dietary fibre in insol. and sol. forms in, enzymic - spectroph., 6F3
- in processed cereal, near-i.r. reflectance spectroph., 4F30
- of element speciation in, review, 1F3
- review of sepn. procedures used for, 6F2
- of elements in aroma constituents of, by m.s., 2F5
- of ethoxyquin in, by t.l.c. - fluorim., 6F51
- of fat-sol. vitamins in, by h.p.l.c., 4F11
- of F⁻ in, potentiom., with ion-selective electrode, 2F3
- of glucose in, enzymic, 6F23
- of glucosinolates and their breakdown products in, review, 5G6
- of GMP and IMP in, by isotachopheresis, 5F9
- of heavy metals in, stripping voltamm., review, 6F1

Foods, determination—continued

- of H₂O₂ in, colorim., elimination of interference by lipid peroxides in, 2F1
- spectroph., 6F12
- of 5-hydroxytryptamines and 5-hydroxytryptamine in, by t.l.c., 5A2C
- of In and Tl in, by a.a.s., 4F6
- of I in, by catalytic - spectroph. method, 5F5
- losses during ashing in, 6F26
- of Hg in, by a.a.s., potential source of interference in, 6B56
- of metal distributions in, by a.a.s., 4F4
- of methionine and methionine sulphoxide in proteins of, by g.c., as thiocyanatomethane, 1G21
- of migration of components of packaging materials into, use of correlations in, 1F13
- of NO₃⁻ and NO₂⁻ in, ion-interaction chrom., 2H59
- of NO₂⁻ in, spectroph., 3F5
- of N in, automatic Kjeldahl analyser for, 4F7
- of pesticides in, by h.p.l.c., 4F17
- of PCB in, by g.c., review, 4F15
- of polyphosphates in, paper chrom., 2F12
- of K and Na in, potentiom., with ion-selective electrodes, 5F31
- of protein-bound formaldehyde in, as N⁶-methyl-lysine, with amino-acid analyser, 1F12
- of purine deriv. in, enzymic - u.v. spectroph., with centrifugal analyser, 1F6
- of pyridoxine metabolites in, ion-exchange chrom. - fluorim., 4D297
- of reducing sugars and sucrose in, by h.p.l.c., 3F6
- of retinol in liquid, fluorim., 3F10
- of all-trans-retinyl palmitate in, isomerisation during extraction for, 6F8
- of riboflavin and thiamine in, by modified AOAC fluorim. method, 6F10
- of saccharin in, by h.p.l.c., 1F10
- of sorbic acid in, by h.p.l.c. or by steam-distillation - u.v. spectroph., 2F14
- of sugar alcohols in, by h.p.l.c., 5F7
- of SO₂ in, by steam-distillation - iodim., 2F13
- of SO₂ in head-space of, by g.c., 5F67
- of taurine in, with amino-acid analyser, 1F27
- of U in, spectroph., 3F4
- of vitamins in, by h.p.l.c., review, 6F7
- identn. of powdered vegetable, review of computer-aided methods for, 1E15
- of synthetic products in vanilla-flavoured, by h.p.l.c., 1F11
- identn. and detmn. of pesticides and industrial chemicals in, by g.c. - m.s., review, 5F19
- isolation of gums and thickeners from, for g.l.c. detmn., 2F11
- m.s. study of esters of aliphatic alcohols in, 6C15
- particle size analysis, by laser-light scattering, 4F2
- research and data analysis, 6F75B
- sampling of, review, 3J1
- sepn. and detmn. of dyes in, by liquid - liquid partition - paper chrom. (or t.l.c.) - h.p.l.c., 2F7
- comparison of methods for, 2F9
- liquid chrom. - paper chrom. (or t.l.c.) - h.p.l.c., 2F8
- of gallic acid esters in, by h.p.l.c., 2F15
- of mycotoxins in mouldy, by t.l.c., 2F18
- of organophosphorus pesticides in, by two-dimensional g.c., 5F20
- system for monitoring gases in containers for storage of, 3F2
- Forensic analysis**, see also *Arson analysis*
- applications of deriv. spectroscopy in toxicological, review, 3D6
- of PIXE in, 5A4C
- of pyrolysis - capillary g.c. in, 6C86
- of pyrolysis - g.c. in, review, 2J56
- computer information-retrieval systems in, review, 5A27
- review, 4A2
- system for electron microsc. - XRF studies in, 1D17
- use of microscopy in, review, 2J78
- Formaldehyde**, analysis of carbohydrates from condensation of, by g.l.c. of TMS - oxime deriv., 3C25
- of condensation products with urea of, by n.m.r., review, 6C82
- detection and detmn. of free, 2C92
- of protein-bound, using NaCNBH₃ reduction, 4F45
- detmn., differential pulse polarogr., indirect amplification method for, 6C19
- modified pararosaniline method for, 4C13
- in air, 2A1C
- differential pulse polarogr., 3H31
- effect of temp. in modified pararosaniline method for, 5H28
- spectroph., 6H24
- in car-exhaust gases, by g.l.c., 2C73
- in presence of other aldehydes, by h.p.l.c. of azines - fluorim., 3H30
- in waste water, by h.p.l.c. of dinitrophenylhydrazones or spectroph., 3H97
- of protein-bound, in foods, as N⁶-methyl-lysine, with amino-acid analyser, 1F12
- ¹H and ¹³C n.m.r. study of aq. soln. of, 3C28
- monitoring of, in air, continuous colorim., 1H30
- sampling of, in air, with passive colorim. monitoring badge, 2H29

Formaldehyde—continued

- hydrate, identn. as decomposition product of 1-methylpyrrolidinone, by g.c. - m.s., 3C66
- Formaldehydesulphoxylate acid sodium salt**, detmn., by h.p.l.c., 4E2
- Formamide, dimethyl-**, detmn. in polyurethane films, by g.l.c., 3E81
- of Fe^{3+} in, square-wave polarogr., 3C107
- , methyl-, detmn. in blood serum or urine, by g.c., 4D118
- Formamidine disulphide**, detmn. in soln. from production of thiourea disulphide, spectroph., 2C41
- Formate**, detmn., ion-exclusion chrom., 1E79
- in microbial culture medium, colorim., 5D100
- sepn. from other anions, by isotachopheresis, 3J45
- from other org. anions, high-performance ion chrom., 5B3
- Formazan, 1,5-bis-(5-chloro-2-hydroxyphenyl)-3-cyano-**, as analytical reagent, 6A20
- Formic acid**, detmn., by photochem. oxidation - titrim., 4C16
- in coffee, by isotachopheresis, 3F42
- in lactic acid-fermented vegetables, by h.p.l.c., 5F51
- in paper-mill effluent, by g.c. of *p*-bromophenacyl ester, 4H94
- in presence of acetic acid, potentiom., 2A19
- of acetic, chloroacetic or trichloroacetic acid, potentiom., 4C17
- of other org. acids, ion chrom., 4E37
- in sugar-refinery products, by g.l.c. of butyl ester, 4F21
- sepn. from other org. acids, anion chrom., 2C29
- Formolin, acetyl-**, detection in malt extract, by g.l.c., as hydroxypyrazole, 5F8
- Frangula**, sepn. and identn. of constituents of extracts of, by h.p.l.c., 3E20
- Freons**, detmn. in gases with simple molecular structure, optoacoustic spectrom., 4H4
- β -D-Fructofuranosidase**, see under *Enzymes, specific*
- Fructose**, detmn. in beer or wort, by h.p.l.c., 4F57
- in fruit, by h.p.l.c., 1F33
- in glucose, spectroph., 5E9
- in grape must, by g.l.c. of TMS deriv., 2F57
- in milk, by t.l.c. - densitom., 4F44
- in presence of ribose and xylose, by paired-ion h.p.l.c., 1D114
- in wine, liquid chrom. - triple-pulse amperom., 5F68
- fast-atom-bombardment m.s. study of, 3C26
- identn. in heroin powder, by resorcinol reaction, 1E22
- identn. and detmn. in olives, paper chrom. - spectroph., 5F52
- sepn. from other sugars, by h.p.l.c., 2C23
- **1,6-bisphosphate**, detmn. in muscle tissue, by bioluminescence method or fluorim., 4D13
- **6-phosphate**, detmn. in biol. tissues, with Bessman phosphate analyser, 6D12
- in muscle tissue, by bioluminescence method or fluorim., 4D13
- Fruit**, see also names of specific fruit
- analysis of flavonoids in, by h.p.l.c., review, 3F7
- detection of organophosphorus pesticides in, by t.l.c. with cholinesterase-inhibition detection, 1G33
- detmn. of ascorbic acid and dehydroascorbic acid in, by h.p.l.c., 2F32
- of Cd in, by a.a.s., 4F5
- of Cd, Pb and Hg in, spectroph., 3F36
- of carbamate insecticides in, by g.c., 6G31
- of carbamate and organophosphorus pesticides in, by t.l.c., 4G21
- of carbendazim, ethoxyquin and thiabendazole in, by g.l.c., by t.l.c., fluorim. or spectroph., 5G30
- of α - and β -carotenes in, by h.p.l.c., 2F31, 5F53
- of dithiocarbamate fungicides in, by h.p.l.c., 3G37
- of glyphosate and its metabolite in, by h.p.l.c. - fluorim., 1G27
- of guazatine triacetate in, by g.l.c., effect of guanidine hydrochloride on recovery in, 6G27
- of imidazolidine-2-thione in berries, by g.l.c. of methyl deriv., 3G38
- of organochlorine and organophosphorus pesticides in, by g.l.c., 2G11
- of 1,2,3,4-tetrahydro-6-hydroxy-1-methyl- β -carboline in, by g.c. of pentafluoropropionyl deriv. - m.s., 3F49
- of trichlorometaphos-3 in raw or canned, by t.l.c., 2G15
- identn. and detmn. of dinitrophenol pesticides in, gel chrom. - g.l.c. of methyl ethers, 3G40
- sepn. and detmn. of fructose, glucose and sucrose in, by h.p.l.c., 1F33
- Fruit juices**, analysis of anions in, ion chrom., 5J64
- of volatiles in, by trapping on Porapak Q - g.l.c., 3F45
- applications of C-isotope analysis in quality control of, review, 2F2
- chemical control of water in, 6F53
- detmn. of ascorbic acid in, differential pulse polarogr., 6F54
- with reagent-impregnated filter-paper, 6F47
- of benzoic acid and sorbic acid in, second-deriv. u.v. spectrosc., 5F17
- of nicotinic acid in, by h.p.l.c., 3F46
- sepn. and detmn. of org. acids in, by h.p.l.c., 1F50
- Frusemide**, detmn. in bile, blood plasma or urine, with its metabolite, by h.p.l.c., 3D127
- of 4-chloro-5-sulphamoylanthranilic acid in, or in its preparations, by h.p.l.c., 1E73
- Fucose**, detmn., by g.c., 3D146
- in presence of other monosaccharides, by methanolysis - h.p.l.c., 4D143
- sepn. from other aldoses, by h.p.l.c. of *N*-(*p*-methoxyphenyl)glycosylamines, 2C24

Fuel gases, see also *Coal gas*; *Petroleum gas*

- analysis of natural, by g.c., 2C59
- by m.s., 2C60
- detmn. of thiols in, potentiom., portable instrument for, 4C44
- Fuel oils**, detection in estuarine and ocean water, fluorim., 4H79
- detmn. of asphaltenes in, BSI gravim. method for, 2C82
- of catalyst residues in, by n.a.a. detmn. of Al, 1C85
- of Cl and V in, by n.a.a., 3C73
- of elements in, emission spectrom., with pre-concn. on poly-(dithiocarbamate) resin, 5B179
- of Ni, Na and V in, by BSI a.a.s. method, 4C55
- of Ni and V in, by a.a.s., 2C61
- of S in, comparison of methods for, 2C80
- identn. of phenalen-1-one in combustion products of, by g.c. - m.s., h.p.l.c. and high-resolution m.s., 5C55
- Fuels**, analysis, liquid chrom. - n.m.r., 3C74
- review, 4A2
- of phenols in, by g.l.c. and h.p.l.c., review, 6C33
- of soln. derived from, by n.m.r., review, 6C60
- detmn. of Pb in, by isotope dilution - m.s., 5B104
- of Pb in reference, by a.a.s., 4C51
- of mol.-wt. distribution of aromatic components of, by chemical-ionisation m.s., 3C75
- evaluation of fossil, by d.t.a. and by pyrolysis - g.c., 2A4C
- n.m.r. studies of solid fossil, review, 4C47
- Fulvic acids**, analysis of fractions of, by cross-polarisation ^{13}C n.m.r. and fast-atom-bombardment m.s., 6H61
- Fumaric acid**, identn. in bacterial cultures, by h.p.l.c. - g.c. - m.s., 3C159
- Functional-group analysis**, by chemical-ionisation m.s., 2C7
- Fungicides, dithiocarbamate**, detmn. in fruit or vegetables, by h.p.l.c., 3G37
- Fur**, h.p.l.c. study of cat, 1D3
- Furadan**, see *Carbofuran*
- 2-Furaldehyde**, detmn. in whisky, u.v. spectroph., 4F63
- , **5-(hydroxymethyl)-**, sepn. from patulin in vegetable extracts, by h.p.l.c., 3F41
- Furan, 2-acetyl-5-(tetradecyloxy)-**, detmn., voltamm., 2E68
- , **tetrahydro-**, detmn. of H_2O in, polarim., 5C50
- Furan derivatives**, identn. in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
- identn. and detmn. of polycyclic, in crude oil, by g.c. - g.c. - m.s., 1C70
- Furan-2-carboxylic acid, 5-(tetradecyloxy)-**, detmn., and detmn. of its methyl and ethyl esters, voltamm., 2E68
- Furan-2-one, 3-aminotetrahydro-**, see *Homoserine lactone*
- Furazolidone**, detmn. in eggs, meat or milk, by h.p.l.c., 5F42
- in fish tissues, by h.p.l.c., 2F24
- Furosemide**, see *Frusemide*
- Fusarenone**, detmn. in *Fusarium* mycelium, by h.p.l.c., 3G6
- Fusarenone-X**, detection in cereals or feeding-stuffs, by g.l.c. of TMS deriv., 5G10
- Fusarium spp.**, sepn. and detmn. of trichothecenes in mycelium of, by h.p.l.c., 3G6

G

G acid, see *Naphthalene-1,3-disulphonic acid, 7-hydroxy-*

- Gadolinium**, detmn., amperom., 2B68
- gravim., 4B81
- polarogr., 5B80, 5B81
- u.v. spectroph., 4B82
- in Co - Gd thin films, by XRF, 1B173
- in gadolinium gallium oxide, complexom., 4B215
- in presence of La, spectroph., 3B65
- in yttrium oxide, emission spectrom., 2B62
- sepn. from La, Lu or Nd, magneto-paper electroph., 3B15
- from Lu, Tb, Tm and Yb, by g.s.c. of chloride or chloride - aluminium chloride complexes, 3B72
- Gadolinium, reagents for, 2,2'-bipyridyl - Chrome Azurol S - dodecylpyridinium chloride**, 3B65
- tetraethylenepentaminehepta-acetic acid, 4B82
- N*-*p*-tolylloxamic acid, 4B81
- Gadolinium alloys, Gd - Co**, detmn. of elements in thin films of, by XRF, 1B173
- Gadolinium gallium oxide**, detmn. of Gd and Ga in, complexom., 4B215
- of Zr in, spectroph., 4B216
- Gadolinium lanthanum oxide sulphide**, detmn. of La in, polarogr., 6B195
- Galactitol**, detmn. in soln. from xylitol production, by g.l.c. of acetate, 5C14
- Galactosamine**, detmn. in presence of glucosamine, tryptophan and 5-methyltryptophan, with amino-acid analyser, 5D140
- Galactose**, detection in confectionery products, by t.l.c., as indication of adulteration, 4F25
- detmn., enzyme electrode for, 2J175
- in blood serum, by flow-injection - enzymic - amperom. method, 4D15
- in cereal-fibre hydrolysates, by h.p.l.c., 3G2, 6F4
- in lactose-reduced milk, by h.p.l.c., 6F38
- in milk, by t.l.c. - densitom., 4F44
- in mucopolysaccharides, by g.l.c., 4D144

Galactose, determination—*continued*

- in plant-cell walls and mucilages, by h.p.l.c., 3D145
- in presence of other monosaccharides, by methanolysis - h.p.l.c., 4D143
- in soln. from xylitol production, by g.l.c. of corresponding aldono-nitrile acetate, 5C14
- sepn. from lactose and sucrose, by h.p.l.c., 5F47
- from other aldoses, by h.p.l.c. of *N*-(*p*-methoxyphenyl)glycosylamines, 2C24

 β -D-Galactosidase, see under *Enzymes, specific***Galactosylceramidase**, see under *Enzymes, specific***Galacturonic acids**, analysis of oligo-, in pectin hydrolysates, by h.p.l.c., 2J44

- sepn. of oligo-, by h.p.l.c. or gel chrom., 2D123

Galena, detmn. of Pb-isotope ratios in, using plasma ion source, 2B99

- sepn. from Ag-containing minerals, by selective dissolution, 3B168

Gallic acid, detmn., by chemiluminescence method, 1C8

- identn. in plants, by h.p.l.c., 5G4

esters, detmn., by g.l.c., 4F50

- identn. in fats or fatty oils, by BSI t.l.c. method, 4F76

- sepn., by g.c. of trifluoroacetates, 2E70

- sepn. and detmn., by h.p.l.c., 2F15

propyl, detmn. in lard or oil, collaborative study of h.p.l.c. method for, 5F75**Gallium**, detmn., fluorim., 4B64

- laser-enhanced-ionisation spectrom., 3J86

- oscillopolarogr., 4B65

- spectroph., 2B55

- stripping potentiom., automated, review, 4J141

- in alloys, by a.a.s., 4B176

- in aluminium or aluminium alloys, emission spectrom., 5B66

- in biol. materials, emission spectrom., matrix effects in, 1D20

- in gadolinium gallium oxide, complexom., 4B215

- in gallium arsenide, by standardless electron micro-probe method, 1B206

- in iron ores or smelting products, by a.a.s., 6B150

- in liquid samples, spectrogr., 2J108

- in minerals, ores or rocks, by spark-source m.s., 1B192

- in presence of other elements, by n.a.a., 5B8

- in silicates, spectrogr., 1B107

- effect of org. solvents on interaction with trihydroxyazobenzene of, 4B63

- sepn. from other elements, ion-exchange chrom., 2B56, 5B16

- solvent extraction of, with aq. systems from organometallic - halide extracts, 1B14

- with 4-(5-nonylpyridine) from HCl medium, 3B61

Gallium, reagents for, acridine yellow, 4B64

- semimethylxlenol blue, 2B55

Gallium arsenide, detmn. of As and Ga in, by standardless electron micro-probe method, 1B206

- of dopant and impurity distributions in, 2B178

- of Te distribution in thin films of, by cathodoluminescence method, 1B207

Gallium arsenide phosphide, analysis, by electron back-scattering coeff. measurements, 5B191**Gallium complexes**, with benzoylacetone or trifluoroacetylacetone, detmn. in presence of related compounds, by t.l.c. - densitom., 5B17

- with catechol violet and hexadecyltrimethylammonium ions, 1B70

- with Eriochrome cyanine R, 1B69

Gallium phosphide, detmn. of concn. profile of, in $\text{GaP}_x\text{As}_{1-x}$ films, by cathodoluminescence method, 1B207**Gamma acid**, see *Naphthalene-2-sulphonic acid, 6-amino-4-hydroxy-***Gamma-HCH**, detmn., inter-laboratory study of, 5G25

- in pesticide mixtures, by automated g.c. - m.s., 2G12

- in water, by g.c. - m.s., 6H62

- identn. in fish tissues, liquid chrom. - g.c., 2F21

Gangliosides, analysis of brain-tissue, by h.p.l.c. of 4-nitrobenzyloxy-amine deriv. - t.l.c. - densitom., 3D173

- sepn. and detmn. in brain tissue, by t.l.c. - densitom., 3D174, 3D175

Gardenia fruit, detection of dye from, in foods, by h.p.l.c. or t.l.c. detection of geniposide, 4F14**Garlic**, detmn. of Fe in, spectrogr., 2B142

- of Se in, comparison of methods for, 5F49

- of volatile org. S compounds in dehydrated, BSI titrim. method for, 2F37

Garnet, aluminium yttrium, detmn. of elements in Nd-containing, by XRF, 3B178

- of Nd in, spectrogr., 6B193

- of Nd in laser rods of, spectrogr., 6B194

gallium gadolinium, see *Gadolinium gallium oxide***Gas oils**, detmn. of Ni in, by a.a.s., 4C57

- of Ni and V in, by a.a.s., 2C61

- of S compounds in, by g.c. with use of flame-photom. detector, 1C84

- production and certification of S in reference materials, 5C56

Gases, see also *Volcanic gases; Waste gases*

- analysers for, 2J13B

- analysis, block detector for γ -absorption device for, 4J10

- by laser-induced fluorescence, apparatus for, 6J8

- by m.s., elimination of interferences in, 2J140

- spectral interpretation in, 2J139

Gases, analysis, by m.s.—*continued*

- with concn. of impurities on solid surface, 6J10

- by time-of-flight m.s., 5J7

- calibration of MIRAN i.r. instruments for, 6J9

- information analysis of adsorption instruments for, 5J6

- screen-printed multi-layer SnO_2 sensor for, 6J12

- semiconductor sensors for use in, review, 4J11

- solid sensors for, review, 6J11

- thin solid-state electrochem. sensors for, 2J163

- of light, automated laser Raman system for, 3J6

- of mixtures evolved from combustion or pyrolysis of plastics, ion-selective analyser for, 6J170

- of mixtures of, by m.s., 2J137

- of residual, in vacuum system, by m.s., 3J7

- of small vol. of, by m.s., 2J138

- automated system for characterisation of sensors for, 5J8

- detection, by Fabry - Perot photothermal method, 5J9

- detmn. of impurities in, automatic on-line system for, with alarm-level monitoring, 6J7

- of less volatile compounds in mixtures of, low-temp. sampling techniques for, 1J6

- effect of non-ideality on concn. of standard mixtures of, 6J14

- generation of test mixtures of, by capillary diffusion, 3J3

- for calibration of methods used in environmental analysis, 4H1

- permeation devices for high-pressure, 3J4

- permeation devices for preparation of standard mixtures of, 2J5

- sampling of, automatic system for, 5J4

- sepn. and purification, using solid adsorbents, review, 4J7

- system for blending of standard mixtures of, 2J4

Gasoline, algorithm for evaluation and identn. of chromatograms of, 6C50

- analysis, by h.p.l.c. - dielectrom., 1J53

- of alcohols in blends of, by g.c., 1C78

- of aromatic components of, by g.c., 3H3

- of hydrocarbon types in, by automated g.c., 1C77

- of premium, by g.c., 1J85

- of samples containing O compounds, by g.c., 2C66

- detmn. of t-butyl methyl ether in, i.r. spectrom., 4C50

- of Cl and V in, by n.a.a., 3C73

- of group composition of hydrocarbons in fractions of, by g.l.c., 3C77

- of hydrocarbon types in, by chemical-ionisation m.s., 6C51

- of Pb in, by a.a.s., with use of emulsions and of aq. standards, 1C76

- of Pb and its alkyl deriv. in, by chromat. - a.a.s., 2J74

- of thiol-S in, BSI titrim. method for, 2C62

- identn. of hydrocarbons in, by g.c., 2C63

- of S compounds in, by g.c. - m.s., 3C78, 6A7C

Gastric juice, assay of pepsins A and C in, rocket immunoelectroph., 6D288

- detmn. of amatoxins in, by r.i.a., 5D89

- of elements in, using three-electrode plasmatron, 6H1

- of histamine in, by h.p.l.c., 5D126

- identn. and detmn. of polyamines in aspirate of, paper chrom. - densitom., 2D193

- sepn. and identn. of barbiturates in, by t.l.c., 4E38

Gastricin, see *Enzymes, specific*, pepsin C**Gastrin**, detmn. of C-terminal tetrapeptide sequence of, by r.i.a., 4D230

- of sulphated and non-sulphated, in blood serum, by r.i.a., 1D198

Geniposide, detection in foods, by h.p.l.c. or t.l.c., 4F14**Gentamicin**, detection in blood serum, solid-phase reagent strips for, 6D49

- detmn. in biol. fluids, by enzyme immunoassay with Abbott ABA-100 Analyzer, 2D69

- in blood serum, by h.p.l.c., 4D65

- with pre-concn. on micro-column, 1D57

- in blood serum or saliva, by fluoro-immunoassay, 6D63

- in presence of cefotaxime, 3D65

- of components of, in presence of other aminoglycosides, by h.p.l.c., 4D64

—sulphate, analysis, by h.p.l.c. of phthalaldehyde deriv., 5E24

- of commercial, by ^{13}C n.m.r., 4E27

- detection of penicillin in preparations of, by t.l.c., 1E38

Gentile acid, detmn. in biol. tissues, blood plasma or urine, by h.p.l.c., 3D84

- in blood plasma, by h.p.l.c., 5D50

- partition-paper-chrom. study of, 4C31

Geraniol, detmn. in presence of other terpenoid alcohols, by h.p.l.c., 4C67

- sepn. from nerol, by g.c., 1J66

Germanium, analysis of semiconductor-grade, review, 4B217

- spectrosc., with use of polar cathode discharge, 3B90

- detmn., a.c. polarogr., 1B108

- dual-wavelength photom., 1B24

- in magnesium, spectrogr., 3B44

- in minerals, ores or rocks, by spark-source m.s., 1B192

- spectroph., 5B98

- in process soln., sample preparation for, 3B93

- in superconducting thin films, spectrogr., 5B192

- of alkali metals in, by a.a.s., 6B98

- of Al in, by stepwise laser photo-ionisation, 1B109

- of C concn. and distribution of, autoradiogr., 2B95

- of dopant and impurity distributions in, 2B178

- Germanium**, determination—*continued*
 of H concn. and distribution in, radiom., 2B96
 of impurities in, by g.c., 6B97
 by n.a.a., 2B94
- Germanium, reagents for**, phenylfluorone, 1B24, 5B192
 poly(vinylpyrrolidinone) - stilbazo, 5B98
- Ghee**, detection of adulteration of, by g.l.c. analysis of unsaponifiable matter, 1F31
 of Phulwara butter in, by t.l.c., 6F42
- Gibberellins**, sepn. of acidic and conjugated, by h.p.l.c., 3G27
- Gilding materials**, micro-analytical study of, in illuminated manuscripts, 3B1
- Ginger**, analysis of pungent principles of, by h.p.l.c., 1F35
- Gingival tissue**, sepn. and detmn. of prostaglandins in, by t.l.c. (or h.p.l.c.) - g.c. - m.s., 6D167
- Ginseng**, isolation of ginsenosides from, 5J20
 sepn. and detmn. of saponins in, by t.l.c. - densitom., 2E19
- Ginsenosides**, isolation from ginseng, 5J20
 sepn. and detmn., by t.l.c. - densitom., 2E19
- Glass**, absorption spectra of Fe in silicate optical, 1B201
 analysis of gaseous inclusions in, by m.s., 2J138
 of particulates of, with electron micro-probe, 5B181
 of surfaces of, by fast-atom-bombardment m.s., 3J118
 evaluation of methods for, 3B170
 of thin layers of, by Rutherford back-scattering spectrometry, 1J176
 characterisation of optical fibre blanks of, by γ -irradiation - spectrom., 5B187
 depth-profile studies of, by fast-atom bombardment, 3B171
 of surfaces of, by ion etching - ion-induced radiation analysis - secondary-ion m.s., 3B172
 detmn. of Co and Cu in, extraction chrom. - a.a.s., 1B200
 of elements in, sample preparation for, 1B199
 of elements in natural, with electron micro-probe, 5B173
 of elements in raw materials for P-containing optical fibres, by a.e.s., 4B211
 of Fe in samples for optical fibres, extraction chrom. - spectrogr., 2B174
 of Fe^{II} and Fe^{III} in, by spectroph. titration, 2B175
 of Pb in, by γ -ray attenuation, 4B210
 by isotope dilution - m.s., 5B104
 of Mn in, by a.a.s. or a.e.s., 2B173
 of P distribution in films of phosphosilicate, by proton activation, 5A4C
 of Ag in lithium aluminosilicate, spectrogr., 2B172
 of H₂O in phosphate, by reduction method, 2B171
 distribution of impurities in surface layers of extra-pure quartz, 6B190
 identn. of source of, by density, dispersion or refractive index measurements, 1B198
 secondary-ion m.s. study of surface layers on, 6A7C
 surfaces of, review, 5B180
- Glaucine**, detmn., colorim., 2E13
 in biol. materials, spectroph., 1D53
- Glaucium flavum**, extraction of alkaloids from, 1E17
- Glazes**, detmn. of Zr in, photom., 5B183
- Gliadins**, detmn. of α -amylase inhibitor proteins isolated from, continuous-flow spectroph., 5D163
 sepn. from other cereal proteins and from each other, by h.p.l.c., 1G5
- Glibenclamide**, detmn. in blood serum, by h.p.l.c., 3D126
- Gliclazide**, detmn. in blood serum, by r.i.a., 3D125
- γ -Globin**, sepn. from other proteins, by h.p.l.c., 5D157
- Globulins**, detmn. of β - and γ -gel electroph., 5D158
 —, **post-gamma**-, detmn. in blood serum, cerebrospinal fluid or urine, by r.i.a., 4D252
- Glucagon**, analysis of iodine-labelled, by h.p.l.c., 5D149
 of peptides from partial hydrolysis of, by g.c. - m.s., comparison of deriv. for, 2D227
 detmn. in blood plasma, by r.i.a., 1D187
 α -Glucan, detmn. in beer, malt or wort, review, 1F43
 β -Glucanase, see under *Enzymes, specific*
- Glucans**, detmn. of sol. carbohydrate in enzymic hydrolysates of, spectroph., 5F25
- Glucaric acid**, detmn. in urine, enzymic, 4D153
- Glucitol**, analysis of partially methylated acetates derived from, by g.c. or g.c. - m.s., 2C25
 detmn. in soln. from xylitol production, by g.l.c. of acetate, 5C14
- Glucofuranosides**, sepn. of mixtures of benzyl α - and β -D-, from glucopyranosides and from each other, by semi-automated h.p.l.c., 2J18
- Glucose**, sepn. from other aldoses, by h.p.l.c. of *N*-(*p*-methoxyphenyl)glycosylamines, 2C24
- Gluconic acid**, detmn. in wine, by isotachopheresis, 6F68
 — **calcium salt**, detmn. in dimethyl sulphoxide media, titrim., 5E4
 in Sereiskii mixture powder, 6E11
- Glucopyranosides**, sepn. of mixtures of benzyl α - and β -D-, from glucofuranosides and from each other, by semi-automated h.p.l.c., 2J18
- Glucosamine**, detmn. in marsh grass, ion-exchange chrom. - g.c. of methoxime acetate, 2D117
 in presence of galactosamine, tryptophan and 5-methyltryptophan, with amino-acid analyser, 5D140
 —, ***N*-acetyl**-, detmn., with its di- and tri-saccharides, by t.l.c. - fluorim., 3D150
- Glucose**, detmn., acceptable limits for precision and accuracy in, 3D3
 bi-enzyme amperom. electrode for, 6J151
 enzyme electrodes for, 2D115, 2J174, 2J175
 enzyme sensor for, 4J134
 enzymic, inhibition of co-immobilised catalase in, 5D91
 enzymic - spectroph., 4D142
 evaluation of Hitachi 705 analyser for, 4D11
 test for drug interferences in enzymic kit method for, 2D23
 with centrifugal analyser, comparison of standardisation techniques for, 1D13
 with Cobas-Bio centrifugal analyser, 2D20
 in beer or wort, by h.p.l.c., 4F57
 in biol. fluids, liquid chrom., with post-column reaction with hexamminecopper(II), 2D108
 in biol. tissues or blood, fibre-optic pH sensor for use in, 2D111
 in blood, review of enzyme electrodes for, 2D114
 spectroph., 4D140
 with Visidex reagent strip, 3D147
 in blood or blood plasma, by differential pH technique, 2D112
 with Eytone reflectance colorimeter, 3D148
 in blood or extracellular fluid, miniature sensors for use in, 4D141
 in blood plasma, continuous-flow enzymic - colorim., 1D14
 in blood serum, by flow-injection - chemiluminescence method, 4D139
 by flow-injection - enzymic method, with automated recycling of NAD⁺, 6D147
 by flow-injection - enzymic - amperom. method, 4D15
 by g.l.c. of *O*-methyloxime TMS deriv. - isotope-dilution m.s., 2D110
 comparison of methods for, using pattern recognition, 2D21
 effect of lipaemia in SMAC method for, 2D19
 enzymic - colorim., automated, 1D116
 enzymic - spectroph., interference by metronidazole in hexokinase methods for, 6D148
 flow-through detector for, 1D15
 with use of Ames Seralyzer, 2D26, 6D13
 with use of reactive strips, 2D25
 in cereal-fibre hydrolysates, by h.p.l.c., 3G2
 in foods, enzymic, 6F23
 in fruit, by h.p.l.c., 1F33
 in grape must, by g.l.c. of TMS deriv., 2F57
 in hydrolysates of neutral detergent fibre, by h.p.l.c., 6F4
 in lactose-reduced milk, by h.p.l.c., 6F38
 in milk, by t.l.c. - densitom., 4F44
 in muscle tissue, by bioluminescence method or fluorim., 4D13
 in plant-cell walls and mucilages, by h.p.l.c., 3D145
 in presence of co-reactants, implantable sensor for, 2D113
 of other monosaccharides, by methanolysis - h.p.l.c., 4D143
 insoln. from xylitol production, by g.l.c. of corresponding aldono-nitrile acetate, 5C14
 in sugar-factory products, automated, 5F21
 in wine, liquid chrom. - triple-pulse amperom., 5F68
 of fructose in, spectroph., 5E9
 of sol. and insol. oligomers of, in lignocellulose hydrolysates, colorim., 5C76
 identn. in heroin powder, by use of commercial test paper, 1E22
 identn. and detmn. in olives, paper chrom. - spectroph., 4F52
 m.s. study of TMS ether of, 2D109
 sepn. from other aldoses, by h.p.l.c. of *N*-(*p*-methoxyphenyl)glycosylamines, 2C24
 from other sugars, by h.p.l.c., 2C23
 of oxidation products of, by g.l.c. of TMS deriv., 5C18
 — **ethers**, sepn. and detmn. in hydrolysates of cellulose ethers, by h.p.l.c. of benzoates, 6C73
 — **1-(1-naphthylacetate)**, detmn. in grapes, liquid chrom., 3G29
 — **1-phosphate**, detmn. in muscle tissue, by bioluminescence method or fluorim., 4D13
 — **6-phosphate**, detmn., by automated bioluminescence method, 4D14
 in biol. tissues, with Bessman phosphate analyser, 6D12
 in muscle tissue, by bioluminescence method or fluorim., 4D13
Glucose, (hydroxycinnamoyl)-, detmn. of isomers of, in vegetable extracts, by h.p.l.c., 5G5
Glucose oxidase, see under *Enzymes, specific*
Glucose-6-phosphate dehydrogenase, see under *Enzymes, specific*
 β -D-Glucoside, 3-nitropropyl-, see *Miseroxin*
Glucosinolates, detmn. in cruciferous plants, feeding-stuffs or foods, with their breakdown products, review, 5G6
Glucuronides, analysis, by fast-atom-bombardment m.s., 6A7C
 characterisation, by chemical-ionisation m.s., 2D116
 —, ***p*-nitrophenyl**-, detmn. in microsomal incubations, by h.p.l.c., 2D15
Glutamate decarboxylase, see under *Enzymes, specific*
Glutamic acid, detmn. in brain tissue, by g.l.c. of pentafluoropropionyl deriv. of hexafluoropropyl ester - m.s., 1D175
 in prostatic capsules, by h.p.l.c., 2E33
 of D-, in foods, by g.l.c. of *N*-pentafluoropropionyl deriv. of isopropyl ester, 1F7
 identn., i.r. spectrosc., 2E4
 sepn. from aspartic acid, by t.l.c., 2D212
 — **potassium salt**, detmn., spectroph., 5E47

- Glutamic acid, γ -carboxy-**, detmn. in bone-tissue extracts, proteins or urine, by h.p.l.c. of phthalaldehyde deriv., 5D141
- Glutaminase**, see under *Enzymes, specific*
- Glutamine**, detmn. in cerebrospinal fluid, by h.p.l.c. of phthalaldehyde deriv., 6D214
- Glutamine phosphoribosylpyrophosphate amidotransferase**, see under *Enzymes, specific*
- Glutamine synthetase**, see under *Enzymes, specific*
- γ -Glutamyltransferase**, see under *Enzymes, specific*
- Glutarate, 2-oxo-**, sepn. from other anions, by isotachopheresis, 3J45
- Glutaryl-CoA dehydrogenase**, see under *Enzymes, specific*
- Glutathione**, detection, fluorogenic reagent for, 2C10
- detmn., titrim., 6C27
- with bromamine N, 4A16
- in presence of other mercapto-compounds, by h.p.l.c. of *N*-(anilino-phenyl)maleimide adducts, 4A8
- sepn. from other thiols, gel electroph., 5D4
- Glutathione peroxidase**, see under *Enzymes, specific*
- Glutathione reductase**, see under *Enzymes, specific*
- Glutathione transferase**, see under *Enzymes, specific*
- Gluten**, detmn. in blood serum, by enzyme immunoassay, 1D197
- in wheat or flour, near-i.r. spectrom., 1F17
- Glutenin**, sepn. of sub-units of, from other cereal proteins, by h.p.l.c., 1G5
- Glutethimide**, detmn. of optical purity of, by n.m.r., 6E36
- Glycollins**, sepn., by t.l.c., 5G7
- Glyceraldehyde 3-phosphate**, detmn. in muscle tissue, by bioluminescence method or fluorim., 4D13
- Glycerate, 2-phospho-**, detmn. in muscle tissue, by bioluminescence method or fluorim., 4D13
- , **3-phospho-**, detmn. in muscle tissue, by bioluminescence method or fluorim., 4D13
- Glyceric acid**, sepn. from other org. acids, anion chrom., 2C29
- Glycerides**, analysis in cosmetics, by t.l.c. on Chromarods, 2C93
- of mixtures of, by g.l.c. of TMS deriv., 2F10
- , **mono-**, detmn., by g.l.c. of TMS deriv., 2F10
- of alkali-metal soaps in, titrim., 6F70
- , —, **diacetyl tartaric acid esters**, detmn., by g.l.c. of TMS deriv. of methyl esters, 2F10
- , **tri-**, detmn., evaluation of Hitachi 705 analyser for, 4D10
- with Cobas-Bio centrifugal analyser, 2D20
- in blood plasma, by g.l.c., 4D162
- in blood plasma or blood serum, enzymic, with centrifugal analyser, 6D176
- in blood-plasma lipids, by field-desorption m.s., 2D155
- in blood serum, comparison of enzymic methods for, 3D168
- enzymic - spectroph., 3D167
- interference by propane-1,2-diol in enzymic method for, 6D177
- in tissue lipids, liquid chrom., with flame ionisation detector, 1D128
- sepn., by h.p.l.c., 4F26
- liquid chrom., 4F71
- from other liver-tissue lipids, by t.l.c., 3D170
- sepn. and detmn., by h.p.l.c. - dielectrom., 1J53
- review of chrom. methods for, 1D130
- in cocoa butter, by h.p.l.c., 6F24
- Glycerol**, BSI colorim. limit test for Pb in, 1C23
- detmn. in blood serum, brain tissue or cerebrospinal fluid, by g.l.c. of TMS deriv., 5D81
- in brewing materials, by h.p.l.c., 5F61
- in muscle tissue, by bioluminescence method or fluorim., 4D13
- in polyamide 6, by HI decomposition - g.l.c., 2C108
- in presence of its formates, by g.c., 4C82
- in wine, liquid chrom. - triple-pulse amperom., 5F68
- of As in, by a.a.s., 3C23
- of heavy metals in, amended BSI method for, 2C22
- Glycerol formal**, detmn. in biol. tissues, by g.l.c. - chemical-ionisation m.s., 6D120
- Glycerol diformate**, detmn. in presence of glycerol and its monoformate, by g.c., 4C82
- Glycerol monoformate**, detmn. in presence of glycerol and its diformate, by g.c., 4C82
- Glycerol 1-phosphate**, detmn. in muscle tissue, by bioluminescence method or fluorim., 4D13
- Glycerol trinitrate**, detection on skin, by t.l.c. - g.c., 3C119
- detmn. in blood plasma, by h.p.l.c., 3D105
- with its metabolites, by g.c. - m.s., 2D88
- in ointments, by t.l.c. - u.v. reflectance densitom., 1E67
- in pharmaceutical preparations, by h.p.l.c., 3E54
- in presence of other explosives, by g.c., 2C128
- of mono- and di-nitrates in crude, by h.p.l.c., 3E55
- sampling of, from water, evaluation of sorbents for, 5H88
- Glycidylamines**, detmn. in graphite - epoxy-resin composites, by h.p.l.c. or titrim., 2C123
- Glycinamide, *N*-(4-chloro-2-(2-chlorobenzoyl))-*N*-methylglycyl-**, detmn. in blood plasma, with its metabolites, by g.l.c. of trifluoroacetyl or TMS deriv. - negative-ion chemical-ionisation m.s., 1D73
- Glycine**, detmn., potentiom., use of sulphur nitride electrode for, 2J166
- in antiperspirant products, by h.p.l.c., 4C70
- in blood plasma, effect of sampling site in, 3D209
- Glycine**, determination—*continued*
- in brain tissue, by g.l.c. of pentafluoropropionyl deriv. of hexa-fluoropropyl ester - m.s., 1D175
- in presence of (hydroxymethyl)serine and serine, by h.p.l.c. of *N*-trinitrophenyl deriv., 4D208
- in prostatic capsules, by h.p.l.c., 2E33
- , **mercapto-propionyl-**, see *Tiopronin*
- Glycoalkaloids**, detmn. in potatoes, by enzyme immunoassay, 5G8
- review of chrom. and colorim. methods for, 5F55
- Glycocholic acid**, analysis, liquid chrom. - positive-ion chemical-ionisation m.s., 5J52
- Glycogen**, detmn. in yeast, colorim. or spectroph., 1F45
- Glycolipids**, sepn. and identn., by h.p.l.c. - field-desorption m.s., 3D179
- Glycollic acid**, see *Acetic acid, hydroxy-*
- Glycopeptides**, sepn. from mucopolysaccharides, liquid chrom., 4D145
- Glycophorin**, fractionation of desialylated, by chromato-focusing, 4D260
- Glycoproteins**, analysis, gel electroph., comparison of staining methods for, 6D247
- of amino-sugars in, with amino-acid analyser, 1D213
- of blood-serum, electroph. - fluorim., 1D206
- of neutral and amino-sugars derived from, by g.l.c. of corresponding alditol acetates, 2D120
- detmn. in blood plasma or blood serum, spectroph., 1D214
- of *N*-acetylneuraminic acids in, by g.l.c. of mannosamine deriv. released by *N*-acetylneuraminidase, 3D261
- of pregnancy-associated α_2 , by enzyme immunoassay, 6D250
- sepn. of isomeric oligosaccharides derived from, by h.p.l.c., 6D150
- of sialo-, by chromato-focusing, 4D260
- study of binding of basic drugs to α_1 -acid, by flow-injection - fluorim. method, 1D48
- Glycosaminoglycans**, see *Mucopolysaccharides*
- Glycosides**, see also *Cardiac glycosides; Flavone glycosides; Iridoid glycosides*
- , **azoxy-**, detmn. in cycad leaves, by h.p.l.c., 3D152
- , **methyl-**, detmn. in foods, by g.l.c., 2F11
- Glycosylceramidase**, see under *Enzymes, specific*
- Glycyrrhetic acid**, see *Enoxolone*
- Glycyrrhiza**, detmn. of enoxolone in roots of, by g.l.c. of TMS deriv., 1E45
- Glycyrrhizin**, detmn. in liquorice products, by h.p.l.c., 3F18
- Glyoxylic acid, phenyl-**, detmn. in urine, by h.p.l.c., 3D135, 6D132
- Glyphosate**, detmn. in fruit or vegetables, with its metabolite, by h.p.l.c. - fluorim., 1G27
- in soil or water, liquid chrom., 3G36
- Goat hair**, differentiation from wool, electron microsc., 6C77
- Gold**, concn., on carbonaceous materials, 6B43
- on inorg. electron-exchange materials, 5B167
- on Polyorgs V, 1B27
- detection, colour reaction for, 2B12
- detmn., by a.a.s., 5J111, 6B45
- with electrolytic pre-concn. on tungsten filament, 3H96
- by charged-particle activation, 3B12
- emission spectrom., extraction method for, 6B24
- fluorim., 5B43
- gravim., 6B44
- potentiom., 5B44
- Au(CN)₂⁻-selective electrode for, 1J191, 2J169
- spectroph., 1B45, 3B41, 4B47, 5B42
- in biol. materials, by n.a.a., 3D51
- in blood, bone tissue or urine, anodic-stripping voltamm., 2D44
- in copper, by a.a.s., 1B41
- in Au - Ag alloys, Auger-electron spectrom., 4B46
- in minerals, ores or rocks, by a.a.s., after pre-concn. with zephiramine, 4B48
- sample decomposition by oxidative fluorination for, 4B49
- by micellar solubilisation - spectroph., 5B45
- by n.a.a., 6B46
- in presence of Ir, Pd, Pt and Rh, spectroph., 2B20
- of other elements, by n.a.a., 5B8
- of other precious metals, by a.a.s., 4B22
- of platinum-group metals, photom., 5B160
- in sea-water, by n.a.a., with pre-concn. by column electrolysis, 5H55
- in spent soln. from stripping or plating baths, inter-laboratory study of, 1B46
- in sweeps, 1B15
- in water, by a.a.s., with concn. by co-pptn. with Te, 4H47
- by n.a.a., with pre-concn. on active charcoal, 4H48
- of elements in raw, emission spectrom., 6J94
- report of symposium on chemotherapeutic agents containing, 5A1
- sepn. from Cu and Ag, by co-pptn. with Fe(OH)₃, 5B46
- from Ir, Pd and Pt, ion-exchange chrom., 1B189
- from other elements, by solvent extraction, 3B42
- solvent extraction of, with aq. systems from organometallic - halide extracts, 1B14
- with 4-*t*-butyl-2-mercaptophenol, 1B44
- with hexanoic acid in presence of benzylamine or pyridine, 5B47
- Gold, reagents for**, 4,4'-bis(diethylamino)thiobenzophenone, 4B47
- 4,4'-bis(dimethylamino)thiobenzophenone - Triton X-100, 5B45
- chrompyrazol I, 1B45

Gold, reagents for—continued

- 2-(4-methoxyphenyl)-5,7-diphenyl-4H-1,3,4-thiadiazolo[3,2-a]pyridinium chloride, 3B41
phenosafranine, 5B42
2-phenylbenzo[8,9]quinolinolizino[4,5,6,7-fed]phenanthridinium perchlorate, 5B43
KI - tetrabutylammonium chloride, 6B44
Rhodamine B, 2B20
thiophene-2-carboxaldehyde 2-quinolylhydrazone, 2B12
4,4,6-trimethyl-1-(2-nitro-*p*-tolyl)pyrimidine-2-thiol, 5B160
Gold alloys, detmn. of Th and U in, by secondary-ion m.s., 1B204
—, **Au - Cu**, detmn. of elements in, with electron micro-probe, correction methods for, 2B9
—, **Au - Pd**, analysis of surfaces of, Auger-electron spectrom., 2B7
—, **Au - Ag**, analysis of surfaces of, Auger-electron spectrom., 4B46
detmn. of elements in, with electron micro-probe, correction methods for, 2B9
Gold ores, detmn. of Au in concentrates from, by a.a.s., sample decomposition by oxidative fluorination for, 4B49
Gonadorelin, detection and detmn., by isotachopheresis, 6E35
Gonadotrophin, chorionic, detmn., by enzyme immunoassay, effect of temp. in, 1D211
by r.i.a., 6D249
by time-resolved fluoro-immunoassay, 2D255
specificity of kit methods for, 4D264
in blood serum, by enzyme immunoassay, 2D254
of β -, in blood serum, by r.i.a., effect of hyperlipidaemia in, 2D295
Gossypol, detmn. in cotton seeds, stems or roots, by h.p.l.c., 1E46
Grains of paradise, analysis of pungent principles of, by h.p.l.c., 1F35
Gramicidin, detmn., by h.p.l.c., 6E29
Granite, detmn. of U in, deriv. oscillography, 2B72
Grape must, see *Must*
Grapefruit, detmn. of 1,2-dibromoethane in, by g.c., with clean-up using H_2SO_4 , 1G35
Grapefruit juice, detmn. of citrate in, by h.p.l.c. or isotachopheresis, 1F41
Grapes, detmn. of carbafuran and its metabolites in, by h.p.l.c., 1G38
of Cu on, by a.a.s., 2G19
of 1-naphthylacetic acid, 1-naphthylacetylaspatic acid and β -D-glucose 1-(1-naphthylacetate) in, liquid chrom., 3G29
Grapeseed oil, detmn. of PAH in, by g.l.c. - m.s., 2F40
Graphite, detmn. of impurities in, emission spectrom., with pre-concn. on chelating resin, 2B87
Grasses, analysis, use of standard samples for control in, 1G18
of fermentable sugars in tropical, by h.p.l.c., 3G21
of sugars in neutral detergent fibre from, by h.p.l.c., 6G18
detmn. of benzo[a]pyrene in, fluorim., effect of traffic on results in, 3G16
of ^{137}Cs and ^{90}Sr in, sample preparation for, 1G2
of carotenes in, colorim., 6G17
of Cu in, by catalytic - potentiometric method, 3G20
of Hf, Mo, Ta and W in, by n.a.a., 3D20
of Nb, Ta and W in, by XRF, 3G19
of organochlorine and organophosphorus pesticides in, by g.l.c., 2G11
fractionation of carbohydrates in, by h.p.l.c., 4G10
Gravimetric analysis, solubility diagrams and their use in, 4B3
Greywacke, detmn. of Mo in, comparison of spectroph. methods for, 6D42
Ground-nuts, see *Peanuts*
Growth hormone, detmn. in blood serum, by r.i.a., 2D245
of human, in blood serum, by sandwich enzyme immunoassay, 4D248
GTP cyclohydrolase, see under *Enzymes, specific*
Guaicol derivatives, chloro-, sepn. of acetylated, from related compounds and from each other, by g.c., 2C50
Guaicol glyceryl ether, see *Guaiphenesin*
Guaiphenesin, detmn., by $NaIO_4$ oxidation - g.c., 2E65
in cough mixture, by h.p.l.c., 3E74
Guanase, see *Enzymes, specific*, guanine deaminase
Guanfacine, detmn. in blood plasma, by g.c. - m.s., 2D91
Guanidine, detmn. in fertilisers, spectroph., 3G18
Guanine, 7-methyl-, detmn. in chemically modified DNA, by h.p.l.c., 4D279
Guanine deaminase, see under *Enzymes, specific*
Guanosine, detmn. in presence of other nucleosides, liquid chrom., 2D272
m.s. - m.s. study of, 1J173
— **phosphates, cyclic 3',5'-mono-**, detmn. in biol. tissues or blood plasma, by enzyme immunoassay, 6D259
sepn. from related compounds, liquid chrom., 3D274
—, **5'-mono-**, detmn. in foods, by isotachopheresis, 5F9
Guanosine, 2'-deoxy-, sepn. of radiation-induced degradation products of, by t.l.c., 5D183
—, **7-methyldeoxy-**, detmn. in chemically modified DNA, by h.p.l.c., 4D279
Guanosine derivatives, sepn. and detmn., by h.p.l.c., 5D185
Guanosine triphosphate cyclohydrolase I, see *Enzymes, specific*, GTP cyclohydrolase
Guayule, detmn. of rubber content of tissues of, by n.m.r., 3G3
of rubber in stems of, i.r. spectroph., 1C123

- Guazatine triacetate**, detmn. in fruit or vegetables, by g.l.c., effect of guanidine hydrochloride on recovery in, 6G27
Gun-metal, detmn. of Cu in, complexom. or spectroph., 6B32
gravim., 5B34
Gunshot, analysis of residues of, by PIXE, 5A4C
detection of residues of, electron microsc., field kit for sampling for, 1D16
Gypsum, detmn. in industrial products or in presence of related minerals, by selective dissolution, 6B182

H

- HCH**, see also under names of specific isomers
detmn., titrim., 4G17
in air, by micro-diffusion - colorim., 4H29
in soil, ring colorim., 6G29
sepn. and detmn. in water, by g.c. - m.s., 6H62
HT-2 toxin, detection in cereals or feeding-stuffs, by g.l.c. of TMS deriv., 5G10
Haem synthase, see *Enzymes, specific*, ferrochelatase
Haemin, secondary-ion m.s. study of, 3D13
Haemoglobins, detmn., prevention of ascorbate interference in, 1D225
of glycosylated, effect of aspirin in, 3D269
interference by foetal haemoglobin and labile glycosylated haemoglobin in, 3D270
in blood, affinity chrom., 4D278
colorim., 2D267
comparison of commercial methods for, 2D264
mobile affinity electroph., 2D268
spectroph., 2D266
in erythrocyte haemolysates, affinity chrom., 5D179
sepn. from serum albumin, gel chrom., 1D202
of glycosylated, comparison of macro- and micro-chrom. methods for, 4D277
— **A₁**, detmn., gel electroph., significance of labile fraction in, 1D226
— **S**, detmn. in blood, spectroph., 2D265
Haemoglobin, carbonyl-, detmn. in blood, comparison of methods for, 6D138
spectroph., 3D140, 3D141
Haemopexin, detmn. in seminal plasma, immunonephelom., 4D241
Hafnium, analysis of surface layer of oxide films on, X-ray photoelectron spectrom., 4B12
detmn. in grass, by n.a.a., 3D20
in nickel alloys, emission spectrom., 2B157
in Zircaloy, emission spectrom., 4B114
in zircon, emission spectrom., 2B106
of Zr in, fluorim., 2B107
solvent extraction of, with *N*-phenylbenzohydroxamic acid in presence of P compounds, 3B98
Hair, analysis, by ion-beam methods, as monitor of occupational exposure, 5A4C
assay of epoxide hydrolase in follicles of, fluorim., 2D301
detmn. of As in, spectroph., 4B182
of Cd in, spectroph., 5B54
of cocaine in, by r.i.a., 2D66
of Cu in, spectroph., 4B37
of elements in, by photon activation, 1D19
by PIXE, 5A4C
comparison of methods for, 5A4C
using three-electrode plasmatron, 6H1
of elements in horse, emission spectrom., 4D16
of Hg in, by isotope dilution, 6B57
of trace-element concn. profiles across diameter of, by PIXE, 5A4C
of Zn in, polarogr., 4D29
Halazepam, sepn. from related compounds, by h.p.l.c., 1D71
Halogen compounds, detmn. of org., in water, 6H53
identn., by g.c., 3C1
Haloperidol, detmn. in blood plasma or blood serum, with its metabolite, by h.p.l.c., 4D99
in urine, by g.c. of acetyl deriv. - m.s., 3D91
Haptoglobulin, detmn., laser nephelom., 4D240
in blood serum, electroph. - spectroph., 2D249
Harman, sepn. from norharman and other pyridoindole deriv., 1J77
Harringtonine, detmn. in blood serum, by g.c. of TMS deriv. - chemical-ionisation m.s., 1D54
sepn. and identn. of diastereoisomers of, from *epi*-harringtonine, by h.p.l.c., 6E20
Hay, detmn. of elements in, by XRF, 1F4
Hazards, analysis of non-volatile org. compounds presenting, by g.c. - m.s., 1C2
assessment of welding fume, review, 6A29
avoidance of (safety in the chemical laboratory), 3A33B
fast-atom-bombardment m.s. studies of nucleoside and nucleotide adducts with compounds presenting carcinogenic, 6A7C
in preparation of 5-(trichloromethyl)tetrazole, 3A32
of explosion in a.a.s. instrument, 4A28
report of symposium on prevention of occupational accidents and diseases in the chemical industry, 2A1

Hazards—continued

- review of industrial hygiene, 4A2
 staff training procedures and extinguishers for fire, 1A30
Heart tissue, analysis of labelled lipids in, by t.l.c. - scintillation counting, 3D169
 assay of aspartate aminotransferase in cytosol and mitochondria of, spectroph., 3D291
 detmn. of free fatty acids in myocardial, by g.c. of methyl esters - m.s., 2D139
 of phosphates in, with Bessman phosphate analyser, 6D12
 of propafenone in, by h.p.l.c., 3D113
Hecogenin, detmn. in presence of rockgenin, chrom. - reflectance spectrom., 6ASC
Hedeoma pulegioides, detmn. of pulegone in, by t.l.c. - densitom., 6C70
Helianthus tuberosus, detmn. of inulin in rhizomes of, paper chrom. - spectroph., 1E47
Helium, detmn. in air, and detmn. of Ar and O in, by time-of-flight m.s., 5J7
 of Ne in, by laser-induced fluorescence, 6J8
Heparan sulphate, gel-chrom. study of enzymic degradation of, 5D92
Heparins, analysis, exclusion chrom., 2D124
 detmn. in compound preparations, by t.l.c., 2E32
 of endogenous and exogenous, in blood plasma, blood serum or urine, by competitive-binding method, 3D155
 — sulphate, sepn. from other mucopolysaccharides, liquid chrom., 4D145
Heparosan N-sulphate D-glucuronosyl 5-epimerase, see under *Enzymes, specific*
Heptacaine, analytical data for intermediate in synthesis of, 2E47
 detmn., by g.l.c. of methyl deriv., 6E45
Heptachlor epoxide, detmn. in human milk, by g.l.c., 5D84
Hepta-1,5-diene, sepn. of enantiomers of, by h.p.l.c., 1C18
Heptaminol, detmn. in blood plasma or urine, by h.p.l.c. of phthalaldehyde deriv., 6D106
Heptane, detmn. in air, with Organic Vapour Monitor, 1C4
 of Pb in, by a.a.s., 4C51
Heptanoic acid, 7-(5-oxocyclopent-1-enyl)-, ethyl ester, detmn. in mixtures from 11-deoxyprostaglandin E₁ production, by g.l.c., 3E33
 —, 7-(5-oxocyclopentyl)-, ethyl ester, detmn. in mixtures from 11-deoxyprostaglandin E₁ production, by g.l.c., 3E33
Heptan-4-one, detmn. of total, in blood serum or urine, by g.l.c. - m.s., 4D147
Hept-5-enamide, 7-[3-hydroxy-2-(3-hydroxy-4-phenoxybut-1-enyl)-5-oxocyclopentyl]-N-(methanesulphonyl)-, see Sulprostone
Heptoses, g.c. study of methylated, 6C18
Herbicides, analysis, in soil or water, chrom., 2A2C
 detmn., with AMICA automatic analyser, 6J16
 in soil or water, by t.l.c. - densitom., 6G26
 of anilide, in peaty soil, by g.l.c. of iodo-deriv., extraction method for, 2G10
 of phenoxyalkyl acids and their esters and salts in, by g.l.c., 2G9
 —, phenylurea, h.p.l.c. study of heptafluorobutyl deriv. of, 1J54
 sepn. and detmn. in water, by h.p.l.c. - m.s., 3H80
 sepn. and identn., by h.p.l.c. - m.s., 4H84
 —, triazine, detmn. in water, by g.l.c. or h.p.l.c., 1H83
 sepn., by g.c., 1G28
Heroin, see *Diamorphine*
Heterocyclic compounds, sepn. of aromatic, by t.l.c., 1C62
Hexachloriridate, detmn., coulomb., effect of aqution in, 4B202
Hexachlororidite, detmn., coulomb., effect of aqution in, 4B202
trans-Hexadecenoic acids, isolation from tissue-lipid extracts, by t.l.c. of methyl esters, 3D162
Hexafluorophosphate, detmn., potentiom., ion-selective electrode for, 3J139
Hexamethonium benzenesulphonate, detmn., spectroph., 1E1
Hexamethylenimine, see *Azepine, hexahydro-*
Hexamine, detmn., conductom., 2E57
Hexane, analysis of products of isomerisation and cracking of, by g.c., 5C8
 detmn. in oilseed meals, by head-space g.l.c., 2G6
 of trace elements in, emission spectrom., 3J82
 sepn. from hexene isomers, by g.c., 1J75
Hexane-1,6-diamine, detection in *N,N'*-hexamethylenbis(nicotinamide), by t.l.c., 1E72
Hexanoate, sepn. from other anions, by isotachopheresis, 3J45
Hexanoic acid anhydride, detmn. of free acid in, i.r. spectroph. or titrim., 1C30
Hexanoic acid, amino-, identn., i.r. spectrosc., 2E4
 —, 2-ethyl-3-oxo-, detmn. in blood serum or urine, by g.l.c. of methyl ester (or of methoxime methyl ester) - m.s., 4D147
Hexanol, 2-ethyl-, detmn. in air, by collection on Chromosorb 102 samples - g.l.c., 4H22
Hexathionate, detmn. in presence of other sulphur anions, by h.p.l.c., 6B125
Hexazinone, recovery from pre-analysis extraction column, 1G25
Hexene, sepn. of *cis*- and *trans*-, from hexane and from each other, by g.c., 1J75
Hex-5-enoic acid, 4-amino-, detmn. of enantiomers of, in biol. fluids, by g.l.c. of *N*-trifluoroacetyl deriv. of methyl esters - m.s., 6D77
Hexobarbitone, detmn., by g.c. - m.s., comparison of methods for, 3E40 non-aq. titrim., 5E27

Hexobarbitone, determination—continued

- of hydroxy-metabolites of, in urine, by g.c. of chloromethylidimethylsilyl (or TMS) - pentyl deriv. - m.s., 2D78
Hexosamines, detmn. in mucopolysaccharides, by g.l.c., 4D144
Hexoses, detmn. of bound, in blood, semi-automated, 5D180
 —, 2-amino-2-deoxy-, detmn., automated spectroph., 3D149
 —, 3,6-dideoxy-, detmn. in lipopolysaccharides, spectroph., 2D127
Hexylcaine hydrochloride, detmn. in presence of hydroxybenzoates, by h.p.l.c., 3E50
Hippuric acid, detmn. in urine, by h.p.l.c., 3D135, 3D136
 sepn. from cinnamic acid, paper chrom., 6J47
 —, *o*-hydroxy-, detection in urine, by t.l.c., as indication of aspirin intake, 5D49
 detmn. in biol. tissues, blood plasma or urine, by h.p.l.c., 3D84
 in blood plasma, by h.p.l.c., 5D50
 by t.l.c. - fluorim., 4D89
Hippuric acid derivatives, methyl, detmn. in urine, by h.p.l.c., 3D135, 3D136
Histamine, detmn., by h.p.l.c. of phthalaldehyde complex, 5D126
 in biol. materials, review, 4D187
 in biol. tissues, by h.p.l.c., 5D126
 in blood plasma, enzymic - radiom., 1D161
 in fish tissues or in their products, by h.p.l.c., 4F37
 in urine, by extraction as Cu^{II} chelate - a.a.s., 1D162
Histamine derivatives, methyl, detmn. in biol. tissues, by h.p.l.c., 5D126
Histidine, detmn. in veterinary formulations, by t.l.c. - spectroph., 2E34
Holmium, detmn., with use of magnetic circular dichroism, 1B89
 in copper, flame photom., with sepn. by amalgam electrolysis, 6B36
 in presence of La or Nd, spectroph. - titrim., 4B80
 in yttrium oxide, emission spectrom., 2B62
 of ¹⁶³Ho, with use of Si(Li) detector, 5B82
 sepn. from La or Lu, magneto-paper electroph., 3B15
Homatropine hydrobromide, detmn., non-aq. titrim., 5E2
Homocromoline, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
Homocysteine, detection, fluorogenic reagent for, 2C10
Homoharringtonine, detmn. in blood serum, by g.c. of TMS deriv. - chemical-ionisation m.s., 1D54
Homoserine, detmn. in pea seedlings, spectroph., 2G1
 — lactone, detmn. in pea seedlings, spectroph., 2G1
Homovanillic acid, see *Acetic acid, 4-hydroxy-3-methoxyphenyl-*
Honey, applications of C-isotope analysis in quality control of, review, 2F2
 detmn. of 2-chloroethanol in, by g.l.c., 5F22
 of Pb in, by a.a.s., 4F23
 of organochlorine and organophosphorus pesticides in, by g.l.c., 2G11
Hop acids, sepn., identn. and detmn. in brewing materials, by h.p.l.c., review, 6F57
Hops, analysis, applications of g.c. in, review, 6F57
 grinding of cones of, 6F59
 of α - and β -acids in, by h.p.l.c., 2F45
 of bitter compounds in, by h.p.l.c., 6F60
 collaborative study of, 2F46
 review, 1F44
 by t.l.c. - u.v. spectroph., 2F44
 detmn. of 2-methylbut-3-en-2-ol in, or in their preparations, by g.l.c., 3E32
 of volatile constituents of, by head-space g.c., 2F51
 of xanthohumol in, by t.l.c. - spectroph., 1F46
 identn. and detmn. of dinitrophenol pesticides in, gel chrom. - g.l.c. of methyl ethers, 3G40
 sepn. of α -, β - and iso- α -acids in products of, by h.p.l.c., 6F61
Hormones, I labelling and h.p.l.c. purification of peptide, 6A2C
 report of proceedings of course on free, in blood, 6A4
Hornblende, analysis, by secondary-ion m.s. and with laser micro-probe mass analyser, 6B93
Humic acids, detmn. in presence of ligninsulphonate and optical brightener, fluorim., 4H83, 6A17
 extraction from soil, by supercritical gases, 3G15
 study of Cu binding by, 3H47
Humus, high-performance size-exclusion chrom. study of aquatic, 4H82
 isolation of, from water, on diethylaminoethylcellulose, 4H81
Hyaluronic acid, sepn. from other mucopolysaccharides, liquid chrom., 4D145
Hydantoin, 1,3-dibromo-5,5-dimethyl-, as oxidim. titrant in non-aq. media, 1A16
 —, 1,3-dichloro-5,5-dimethyl-, as oxidim. titrant in non-aq. media, 1A16
 —, 5-(*p*-dimethylaminobenzylidene)-2-thio-, as spectroph. reagent, 2B19
Hydralazine, detmn., polarogr., 3E60
 in pharmaceutical preparations, fluorim., 5E39
 oscillograph. study of, 3E59
 — hydrochloride, detmn. in pharmaceutical preparations, by h.p.l.c., 4E57
Hydraulic fluids, detmn. of PCB in, comparison of g.c. methods for, 3C84
Hydrazine, detmn., by chemiluminescence methods, 1C8
 potentiom., with hydantoin deriv. in non-aq. media, 1A16
 in presence of NH₃, dimethylamine, methylhydrazines and H₂O by g.l.c., 1B117

Hydrazine—continued

- , *N*-acetyl-*N*-methyl-*N'*-phenyl-, isolation from amidopyrine soln., by t.l.c., 3E43
- , *NN*-dimethyl-, detmn. in presence of NH_3 , dimethylamine, hydrazine, methylhydrazine and H_2O , by g.l.c., 1B117
- , 1-isonicotinoyl-2-lactosyl-, detmn. in isoniazid tablets, by h.p.l.c., 4E75
- , methyl-, detmn. in presence of NH_3 , dimethylamine, *NN*-dimethylhydrazine, hydrazine and H_2O , by g.l.c., 1B117
- , phenyl-, detmn., by kinetic - spectroph. method, 1C9
 - potentiom., with hydantoin deriv. in non-aq. media, 1A16
 - in air, 5A2C
 - in air or water, spectroph., 5H4
- Hydrazinecarboxylic acid, 2-(6-[ethyl-(2-hydroxypropylamino)pyridazin-3-yl], ethyl ester, see *Cadralazine*
- Hydrazinium ion, 1-(2-hydroxyethyl)-1,1-dimethyl-, detmn., by g.l.c. - m.s., 4D205
- , 1-(2-hydroxyethyl)-1,1-dimethyl-, acetate, detmn., by g.l.c. - m.s., 4D205
- Hydrazones, 1-methyl-2-(4-thiazolyl)benzimidazolyl-, sepn. from thio-semicarbazonas and from each other, by t.l.c., 2C58
- Hydrocarbons, see also *Alkanes*; *Alkenes*; *Alkynes*; *Petroleum* analysis, mass spectrometer for, 2C12
 - of low-boiling, by g.c., 1J85
 - of residual, in fodder yeast, by g.l.c., 5G24
 - of thermal cracker effluent, by g.c. and g.c. - m.s., 6C53
 - of types of, in gasoline or naphtha, by automated g.c., 1C77
 - of volatile, in water, by gas stripping - g.c., 6H51
- concn. from air, comparison of adsorbents for, 3H23
- detmn., by g.c., 2C11
 - in air, by g.c., 1H29
 - in lipid mixtures, liquid chrom. - gravim., 1D135
 - in vacuum system, by m.s., 3J7
 - in water, by open-circuit inert-gas stripping - g.c., 3H73
 - of hydroxy-compounds in solvents, spectroph., 3C20
 - of S compounds in, by g.c. with use of flame-photom. detector, 1C84
 - of types of, by chemical-ionisation m.s., 6C51
 - in diesel fuel fractions, by h.p.l.c., 6C55
 - in gasoline fractions, by g.l.c., 3C77
- fractionation of lubricating-oil, by h.p.l.c., 4C53
- identn. in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
- in gasolines or distillates, by g.c., 2C63
- in water, i.r. spectrom., 5H91
- of fuel accelerants, by g.l.c., with automated sampling and computer-assisted interpretation, 1C5
- of types of, in petroleum fractions, by BSI fluorescent-indicator-adsorption method, 2C64
- sepn., by g.c., 1J75
 - of monocyclic, by g.c., 2J63
- sepn. and detmn. in gasoline, by g.c., 2C66
- , aliphatic, identn. and detmn. in air, by g.c., review, 5H25
- , aromatic, analysis of products of xylene manufacture, by g.c., 2C47
- detmn. in coke-oven gas, by g.c., 6C62
 - in marine biota, by high-performance chrom. methods, 2A2C
 - in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113
 - in sulphuric acid wastes, u.v. spectroph., 3H101
- identn. of source of, in sediments, by g.l.c. - m.s., 5H85
- identn. and detmn. in air, by g.c., review, 5H25
- sepn., by g.c., 1J73
 - by g.c. or liquid chrom., thermodynamic study of, 5C29
 - by h.p.l.c., 3J18
 - use of multiple linear-regression analysis for calculations of conditions for, 5C30
 - of alkyl-substituted, by h.p.l.c., 1C71
 - of high-boiling, by h.p.l.c., 4C28
- sepn. and detmn. of light, in waste water, by g.l.c., 1H89
- , C_1 to C_4 , sepn., by g.c., 1J73
- , C_1 to C_7 , detmn. in natural gas, by g.c., 2C59
- , C_1 to C_{15} , detmn. in small rock samples, by thermal mobilisation - g.c., 1C66
- , chloro-, concn. from air, comparison of adsorbents for, 1H39, 3H23
- detmn. in fish, sediments or water, by g.l.c., 1H75
- in water, by head-space g.c., 2F51
- of solubility limits of, by head-space g.c., 4H69
- identn. and detmn. in air, by g.c., review, 5H25
- in environmental materials, by triple-quadrupole m.s., 4H68
- , C_1 to C_3 , sepn., by g.l.c., 1C21
- , chlorofluoro-, detmn. of 'inert gas' content of, BS g.c. method for, 5C12
- , halo-, detmn. in fish tissues, by g.l.c., 5F40
- in water, by g.c., 2H78
 - of C_3 and C_4 , in water, by g.l.c., 4H71
- , polycyclic aromatic, analysis of pitch, by h.p.l.c. - t.l.c., 3C90
- characterisation, by negative-ion chemical-ionisation m.s., 3C64
- computer-assisted prediction of liquid-chrom. retention indices of, 4C37
- detection, by h.p.l.c. - electrochemiluminescence method, 1J135, 2J126
- in h.p.l.c. eluates, by chemiluminescence method, 5C45

Hydrocarbons, polycyclic aromatic—continued

- detection and detmn. on solid surfaces, by luminescence, fluorescence and room-temp. phosphorescence methods, review, 6H2
- detmn., by g.c., modified flame-photom. detectors for, 3J54
 - by t.l.c. - fluorim., 6F55
 - laser-induced matrix-isolation fluorim., 1C59
 - phosphorim., 3J88
 - Shpol'skii fluorim., 4H78
- in air, by g.c. - negative-ion chemical-ion chemical-ionisation m.s., 2H34
- in air or aq. soln., by secondary-ion m.s., 1H36
- in car-exhaust gases, by t.l.c., 5A2C
- in car-exhaust gases or in coal or petroleum products, 5C52
- in coffee-bean and other oils, by g.l.c. - m.s., 2F40
- in environmental materials, by h.p.l.c., review, 2H4
- by quasi-line luminescence and excitation spectra, 6H4
- in urine, with their metabolites, by h.p.l.c., 6D135
- in waste water, by g.l.c. or h.p.l.c., 5H103
- of individual or total, by t.l.c. - h.p.l.c. or by t.l.c., 3H77
- of oxygenated, in air-borne dust, by g.c. and g.c. - m.s., 4H26
- identn. in sediments, Shpol'skii-effect fluorim., 6H55
- identn. and detmn., liquid chrom. - m.s., 2C65
- in air, by g.c., review, 5H25
 - by g.l.c., 3H36
- in environmental materials, by triple-quadrupole m.s., 4H68
- in sewage, by h.p.l.c., 1H87
- isolation from mineral oil, liquid chrom., 5C57
- prediction of h.p.l.c. retention of, 3C63
- secondary-ion m.s. study of, 5A3C
- sepn., by g.c., 1C57, 1C58, 5J85
 - by g.l.c., 1J77
 - by h.p.l.c., 2J32
 - liquid chrom., 4J30
- from their nitro-deriv. and detmn., by h.p.l.c. - g.l.c., 4C36
- sepn. and detmn., by laser-ionisation g.c. - m.s., 4C39
- in car-exhaust gases, by g.l.c., 5C54
- sepn. and identn. in diesel particulate emissions, by t.l.c. - g.c. (or t.l.c. - g.c. - m.s.), 5H35
- in mineral oils, by g.c. - and g.c. - m.s., 5C58
- sepn., identn. and detmn., by t.l.c. - g.l.c., 4C38
- Hydrochlorothiazide, detmn. in blood plasma or blood serum, by automated h.p.l.c., 2D99
- in presence of related compounds, by t.l.c. - spectroph., 2E63
- Hydrocortisone, detmn., by h.p.l.c., derivatisation with anthranitriles for, 4D173
- in biol. fluids, by h.p.l.c., 6D190
- in blood plasma, accuracy and precision of results in, 4D172
- by g.c. of methoxime - TMS ether deriv. - m.s., 6D193
- by h.p.l.c., 3D72
- by immunoabsorption - g.c. of bis(methoxime) tris(TMS) ether - m.s., 2D173
- by isotope dilution - m.s., 1D143
- in blood serum, by g.c. of methoxime - TMS deriv. - m.s., 2D182
- by h.p.l.c. - fluorim., 6D191
- in creams, by h.p.l.c., 2E1
- in urine, by h.p.l.c., automated, 4D178
- evaluation of h.p.l.c. method for, 6D192
- sepn. of metabolites of, gel chrom. - g.l.c. of methoxime - TMS ether deriv., 6D186
- acetate, chrom. methods for analysis of creams containing, 1E2
- Hydrocortisone antibody, detmn., potentiom., ion-selective electrode for, 6J155
- Hydrogen, see also *Deuterium*; *Tritium*
 - analysis of mixtures of isotopes of, by m.s., instruments for, 2J141
 - detection, with screen-printed multi-layer SnO_2 sensor, 6J12
 - in gas mixtures, by palladium-surface acoustic wave interaction, 1B30
 - sensors for, 2J164
- detmn., with H-conditioned Clark-type electrodes, interferences in, 5D15
- in air, by coherent active spectroscopy - light scattering, 1H13
- in argon, by time-of-flight m.s., 5J7
- coulom., 4B23
- in breath, by m.s., problems of contamination in, 4D21
- collection device for, 6D23
- sensitivity and specificity of test for, 3D23
- storage of samples in plastic syringes for, 3D22
- in carbon dioxide, by g.c., 1B99
- in gas mixtures, GASFET sensor for, 1J189
- in liquid sodium, review of electrochem. techniques for, 3B23
- in org. compounds, see under *Organic elementary analysis*
- in small gas vol., by m.s., 2J138
- in titanium hydride or other high-H specimens, by N carrier gas - h.f. hot-extraction method, 5B28
- in vacuum system, by m.s., 3J7
- of concn. and distribution of, in germanium crystals, radiom., 2B96
- of H^3H in air, monitor for, 2H8
- of impurities in, automatic on-line system for, with alarm-level monitoring, 6J7
- of impurities in high-purity samples for semiconductor fabrication, by g.c. - m.s., 2J75

- Hydrogen**, determination—continued
 of isotopes of, by g.c., 2B21
 of local concn. of, in metals, electrochem., 2B23
 effect of sample temp. on variability of rotational Raman intensity of, 1B29
 isotopic analysis, by m.s., comparison of single- and double-comparison techniques for, 5B27
 secondary-ion microscopy of, in Fe- and Ni-based alloys, 1A1C
- Hydrogen chloride**, detmn., measuring 'stick' for, 5B137
 potentiom., use of sulphur nitride electrode for, 2J166
 in air, ring colorim., 5H22
 system for, 1H10
 in gas mixtures from combustion or pyrolysis of plastics, with ion-selective analyser, 6J170
 in phosphorothioic trichloride, potentiom., 3B105
 in polyamide fibres, potentiom., 3C105
 in presence of acetic acid, potentiom., 2A19
 in products of oxychlorination of ethylene, by g.c., 3C18
 in vacuum system, by m.s., 3J7
 of free Cl in soln. of, indirect a.c. anodic-stripping voltamm., 3B128
 sampling of, from air, impregnated filters for, 5H20
- Hydrogen cyanide**, detmn. in air, by g.c., low-temp. sampling technique for, 1J6
 in gas mixtures from combustion or pyrolysis of plastics, with ion-selective analyser, 6J170
 in products of pyrolysis and combustion of filtration resins, photom., 6C85
 in vacuum system, by m.s., 3J7
- Hydrogen fluoride**, detmn. of personal exposure to, by permeation sampling - potentiom., with ion-selective electrode, 1H25
 passive dosimeter for, 5H21
 sampling of, from air, impregnated filters for, 5H20
- Hydrogen peroxide**, detection, enzymic - amperom., 2D29
 detmn., with peroxidase adsorbed on carbon electrode, 3B21
 in foods, colorim., elimination of interference by lipid peroxides in, 2F1
 in hair-care products, 2C92
 in pickling baths for copper or copper alloys, by flow-injection - amperom., method, 1B39
 in polymers or resins, by chemiluminescence method, 2C111
 in presence of H_2SO_4 and $H_2S_2O_8$, by thermom. titration, 4B28
 in rain, interferences in chemiluminescence method for, 1H57
 in soln. from production of thiourea dioxide, spectroph., 2C41
 optimisation of conditions for Cu^{2+} -catalysed decomposition of, 6A11
 shelf life of soln. of, 2F59
- Hydrogen sulphide**, detmn., by a.f.s., 3B111
 in air, apparatus for continuous, 2H17
 semiconducting sensor for, 3J8
 with stain-length passive dosimeter, 3H18
 in gas mixtures, electrochem. device for, 4J12
 galvanic solid-state sensor for, 4B135
 GASFET sensor for, 1J189
 in vacuum system, by m.s., 3J7
 in volcanic gases, 6H8
 of bacterially produced, potentiom., with S^{2-} -selective electrode, 3D44
- Hydrolases**, see under *Enzymes, specific*
- Hydroperoxides**, 1-phenylcyclohexyl, detmn. in mixtures from oxidation of phenylcyclohexane, by g.l.c., 3C43
- Hydroquinone**, see *Quinol*
- 3-Hydroxyacyl-CoA dehydrogenase**, see under *Enzymes, specific*
- 2-Hydroxybutyrate dehydrogenase**, see under *Enzymes, specific*
- Hydroxy-compounds**, detmn. in hydrocarbon solvents, spectroph., 3C20
 of vic-di-, potentiom., with Pb^{2+} -selective electrode, 3C46
- Hydroxyl radical**, detmn. in troposphere, by e.s.r. and g.c. - m.s., 2H9
- Hydroxylamine**, detmn., by chemiluminescence method, 1C8
 titrim., 6B113
- Hydroxymethylbilane synthase**, see *Enzymes, specific*, uroporphyrinogen I synthase
- Hydroxyprocaline hydrochloride**, differentiation of polymorphs of, i.r. spectrom., 3E8
- 25-Hydroxyvitamin D 1 α -hydroxylase**, see under *Enzymes, specific*
- Hydroxyzine hydrochloride**, effect of temp. on u.v. spectrum of, 5E40
- Hyoescine**, detmn. in datura leaves, by t.l.c. - reflectance densitom., 6E15
 in presence of other tropane alkaloids, by t.l.c. - densitom., 1E24
 — butylbromide, characterisation of tetraphenylborate deriv. of, and detmn., amperom., 1E25
 — hydrobromide, characterisation of tetraphenylborate deriv. of, and detmn., amperom., 1E25
- Hyoscyamine**, detmn. in plant material, by r.i.a., 4E12
 in presence of other tropane alkaloids, by t.l.c. - densitom., 1E24
- Hypericin**, detmn. in *Hypericum* extracts, by t.l.c. - fluorim. (or spectroph.), 2E40
 in *Hypericum perforatum* herb or its preparations, spectroph., 1E50
- Hyperoside**, identn. and detmn. in preparations of medicinal plants, comparison of methods for, 3E19
- Hypertensin**, h.p.l.c. study of radiation stability of, 2D229
- Hypochlorite**, detmn. in bleach liquor, ion chrom., 2C103
 in presence of Cl^- , potentiom., with Cl^- -selective electrode, 2B136
- Hypohalous acids**, response of halide-selective electrodes to, 2B135
- Hypoxanthine**, detmn., bi-enzyme amperom. electrode for, 6J151
 in beef, by h.p.l.c., 1F21
 in blood plasma, erythrocytes or urine, by h.p.l.c., sample storage for, 4D290
 in blood plasma or urine, by h.p.l.c., 6D262
 sepn. from other degradation products of adenine nucleotides, by t.l.c., 4D284

I

- IL-16**, see *Pyrrolidine-2,5-dione*, 1-amino-3-(3-bromophenyl)-
- Ibomal**, detection in post-mortem blood, by g.l.c., 1D62
- Ice-cream**, detmn. of α - and β -lactose in, by h.p.l.c., 2F29
 evaluation of quality of, review, 2F30
- L-Iduronidase**, see under *Enzymes, specific*
- Image analysis**, advances in automatic, review, 4A21
- Imequine**, detmn., colour reactions for, 4E54
- Imidazole**, 2,4-dichloro-1-[β -(4-chlorobenzylthio)phenethyl]-1H-, see *Sulconazole*
- , 4,5-dihydro-2-(2,2-diphenylcyclopropyl)-1H-, see *Cibenzoline*
- , 4,5-dihydro-2-(6-isopropyl-m-tolylloxymethyl)-1H-, see *Thymazoline*
- , 2-mercapto-1-methyl-, see *Methimazole*
- Imidazole-4-carboxamide**, 5-amino-, detmn. in blood or urine, polarogr., 3D122
- Imidazole-4,5-dicarboxamide**, 1-ethyl-N,N'-dimethyl-, see *Ethimazole*
- Imidazolidine-2-thione**, detmn. in berries or cigarette-smoke condensate, by g.l.c. of methyl deriv., 3G38
- Imidazoline derivatives**, sepn., by h.p.l.c., 6C66
- Imidazol-2-one**, 1,3-dihydro-4-methyl-5-[4-(methylthio)benzoyl]-2H-, detmn. in blood plasma, by h.p.l.c., 3D115
- Imino-acids**, detection, by h.p.l.c. of deriv. formed with 4-fluoro-7-nitrobenzofurazan, 5D117
- Imipramine**, detection, reagents for, 4E44
 detmn., by g.c., concn.-dependent behaviour in, 2E3
 in blood plasma, by g.l.c., 3D95
 by h.p.l.c., 6D95
 in blood serum, interference by thioridazine in, 4D101
 sepn. from amitriptyline maleate, by h.p.l.c., 6E43
 — hydrochloride, detmn., non-aq. titrim., 5E2
- Immunoassay**, see also *specific immunoassay techniques*
 homogeneous, review, 2D5
 modern methods for, review, 1D9
 semi-automated washing and aspirating procedure for solid-phase, 2D10
 techniques involving NAD^+ labelling, review, 6D230
 using antibody - alginate coupling procedure, 1D55
- Immunoglobulins**, detection, by immunofixation on cellulose acetate, 2D247
 detmn. in blood serum, review, 2D246
 sepn. and characterisation of anti-oestradiol, in blood serum, by h.p.l.c., 1D193
 visualisation of, after isoelectric focusing, 3D254
 — A, detmn., laser nephelom., 4D240
 in seminal plasma, immunonephelom., 4D241
 —, secretory, detmn. in blood serum, by enzyme immunoassay, 2D248
 in seminal plasma, immunonephelom., 4D241
 — E, detmn., by fluoro-immunoassay, 1D201
 in blood serum, by enzyme immunoassay, 6D240
 — G, detection in cerebrospinal fluid, by isoelectric focusing - immunofixation, 6D226
 detmn., by chemiluminescence immunoassay, 3D277, 5D162
 by r.i.a., 6D239
 laser nephelom., 4D240
 in cerebrospinal fluid, agarose gel electroph., 5D159
 in cerebrospinal fluid or urine, by enzyme immunoassay, 6D241
 in seminal plasma, immunonephelom., 4D241
 — M, detmn., laser nephelom., 4D240
- IMP dehydrogenase**, see under *Enzymes, specific*
- Impedance**, instrument for measurement of a.c., 1J195
- Incoloy 800H**, analysis of corrosion layers on surface of, with electron micro-probe and X-ray diffractom., 3B135
- Indeloxazine**, detmn. in blood plasma, by g.l.c. of heptafluorobutyl deriv., 3D97
- Indenolol hydrochloride**, detmn., by h.p.l.c., 4E58
- Indeno[1,2,3-cd]pyrene**, detmn. in presence of other PAH, by t.l.c. - h.p.l.c., 3H77
- Indenopyrene derivatives**, detmn. of polyalkylated, in tobacco smoke, by g.c. - m.s., 5J85
- Indicators, acid - base**, alizarin-9-imine, 1A14
 p-benzoquinone mono-(2,4-dinitrophenylhydrazon), 1A15
 bisaquobis(malonato)- and bisaquobis(oxalato)-chromium^{III} complexes, 4A11
 fluorescent, for measuring near-neutral pH values, 2A14
 for Hammett function scale in conc. H_2SO_4 , 5A20
 —, metallochromic, aminophosphinic and aminophosphonic acids, 2B139
 5-Br-PADAP, 4B186
 characteristics and applications of, 4A13
 5'-chloro-2',4'-dihydroxypropiophenone, 1B154
 Disperse yellow 6G, 4B188

Indicators, metallochromic—continued

- 6-(5-methyl-1,3,4-thiadiazol-2-ylazo)-3,4-xylenol, 2A16, 2A17
 3-nitrosochromotropic acid, 6B164
 phenanthrenequinone monosemicarbazone, 6B32
 —, **redox**, 2,8-diamino-4,5-dihydroxyanthraquinone-2,7-disulphonic acid, 2A15
- Indium**, concn. from sea-water, by flotation using two surfactants, 5H50
 detmn., anodic-stripping voltamm., effects of surfactants in, 2B13
 by a.a.s., interference by alkali metals in, 4B67
 colorim., 4B66
 laser-enhanced-ionisation spectrom., 3J86
 non-aq. amperom., 5B72
 polarogr., 2B59, 5B18
 spectrogr., 1B74, 2B57
 in copper indium sulphide, by electro-deposition - titrim., 4B213
 in foods, by a.a.s., 4F6
 in indium phosphide, by standardless electron micro-probe method, 1B206
 in liquid samples, spectrogr., 2J108
 in magnesium, spectrogr., 3B44
 in nickel alloys, by a.a.s., 5B157
 in presence of other elements, by n.a.a., 5B8
 in silicon, by n.a.a., 1B106
 sepn. from Co, ion-exchange chrom., 6B163
 from Ga, ion-exchange chrom., 2B56
 from other elements, ion-exchange chrom., 5B16
 solvent extraction of, with Alamine 336, 6B100
 with aq. systems from organometallic - halide extracts, 1B14
 with quinoline-8-carbodithioic acid, 3A14
 with quinolin-8-ol, 4B68
- Indium**, reagents for, 2-ethylamino-5-(2-pyridylazo)-*p*-cresol, 2B57
 phenylfluorone in presence of surfactants, 4B66
 4-(2-thiazolylazo)catechol, 1B74
- Indium antimonide**, detmn. of dopant and impurity distributions in, 2B178
- Indium complexes**, with catechol violet and hexadecyltrimethylammonium ions, 1B70
 with diethylenetriaminepenta-acetic acid or EDTA, detmn. in water, by n.a.a., 3H74
 with diphenylguanidine and Eriochrome black T, 2B58
 with Eriochrome cyanine R, 1B69
- Indium phosphide**, detmn. of In and P in, by standardless electron micro-probe method, 1B206
- Indolamine derivatives**, detmn. in brain tissue, with their metabolites, by h.p.l.c., with thin-layer electrochem. detector, 1D151
 sepn. and detmn. in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D152
- Indole**, 4-(2-benzoyloxy-3-*t*-butylaminopropoxy)-2-methyl-, hydrogen malonate, see *Bopindolol*
- Indole derivatives**, detmn. in air, by collection on active carbon - g.c. - m.s., 2H27
 sepn., by high-performance t.l.c., 5D129
- Indol-5-ol**, detmn. in urine, interference by oxprenolol metabolite in, 4D203
- Indomethacin**, detmn., u.v. spectrogr., 4E47
 in blood plasma, by h.p.l.c., 5D61
- Indopan**, identn. in presence of other control nervous system stimulants, liquid chrom., 4E46
- Industrial hygiene**, review, 4A2
- Inks**, comparison of, absorption and reflectance spectrogr., 5C89
 differentiation, by t.l.c. - i.r. luminescence photography, 3C116
- Inorganic analysis**, applications of extraction methods in, review, 4B4
 of two-dimensional t.l.c. in, review, 5J74
- Inosine**, detmn. in beef, by h.p.l.c., 1F21
 sepn. from other degradation products of adenine nucleotides, by t.l.c., 4D284
 — **phosphates**, sepn. and detmn. in beef, by h.p.l.c., 1F21
 —, **5'-mono-**, detmn. in biol. tissues, with Bessman phosphate analyser, 6D12
 in foods, by isotachopheresis, 5F9
- Inosine, deoxy-**, detection, by h.p.l.c. - m.s., 6D260
- Inosine 5'-monophosphate dehydrogenase**, see *Enzymes, specific*, IMP dehydrogenase
- Inosinic acid**, detmn. in meat, by h.p.l.c., 5F35
- Inositol, *epi-***, detmn. in pharmaceutical preparations or org. extracts, by t.l.c. - fluorim., 3E79
- , ***myo-***, detmn. in pharmaceutical preparations or org. extracts, by t.l.c. - fluorim., 3E79
- , —, **2-phosphate**, detmn. in pharmaceutical preparations or org. extracts, by t.l.c. - fluorim., 3E79
- Insecticides**, see *Pesticides*
- Insects**, analysis of hormones of, with use of radial-compression sepn. system, 2D184
 detmn. of aldehyde pheromones of, by bioluminescence method, 4D148
 h.p.l.c. studies of venoms of, 1D3
 identn. of pheromones of, by g.c. - m.s., 3J99
- Instrumental analysis**, 3J14B
- Insulating oils**, detmn. of PCB in, by g.c., 3C85

Insulins, analysis, by h.p.l.c., 5D147

- detmn. in pharmaceutical preparations, by h.p.l.c., 2E37
 of arginine in, with enzyme electrode, 4D220
 purification, comparison of chrom. methods for, 2E36
 sepn. of monoiodinated isomers of, from non-iodinated insulin and from each other, by h.p.l.c., 2E38
- Interferometry**, FT i.r., 1J179B
- Interferon**, detmn., by enzyme immunoassay, 1D199
- Inula helenium**, detmn. of inulin in roots of, paper chrom. - spectrogr., 1E47
- Inulin**, detmn. in chicory root, by h.p.l.c., 3F44
 in vegetable drugs, paper chrom. - spectrogr., 1E47
- Invertase**, see *Enzymes, specific*, β -D-fructofuranosidase
- Iodate**, detmn., by flow-injection - spectrogr. method, 1A8
 sepn. from other anions, high-performance ion chrom., 5B3
- Iodide**, detection in drugs, colour reaction for, 3E2
 detmn., by catalytic - tensamm. method, 4B153
 by flow-injection - amperom. method, 6J171
 by flow-injection - catalytic - spectrogr. method, 2H70
 differential alternating-pulse voltamm., 4B154
 ion chrom., 1B19
 measuring 'stick' for, 5B137
 potentiom., with hydantoin deriv. in non-aq. media, 1A16
 radiom., 2A10
 stripping voltamm., electrolytic pre-concn. processes in, 1B146
 in $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$ melts, by coulom. thermom. titration, 1B147
 in presence of Br^- , titrim., 4B117
 of Br^- and Cl^- , potentiom., with S^{2-} -selective electrode, 1C15
 of other halides, potentiom., calculation of equiv. pt. in, 4A17
 in sodium chloride, by flow-injection - amperom. method, 5J13
 by h.p.l.c., 6F50
 by kinetic - u.v.-spectrogr. method, 4B32
 in water, by pyrolysis - g.l.c., as iodicocyclohexanol, 6H48
 sepn. from other anions, high-performance ion chrom., 5B3
- Iodine**, detection of free, in drugs, colour reaction for, 3E2
 detmn., emission spectrom., 2B18
 in air, by n.a.a., comparison of sampling media for, 6H18
 in biol. materials, emission spectrom., 2D33
 losses during ashing in, 6F26
 in biol. tissues, by XRF, 5J99
 in fats or fatty oils, by n.a.a., 4F68
 in foods, by catalytic - spectrogr. method, 5F5
 in hair, by photon activation, 1D19
 in org. compounds, see under *Organic elementary analysis*
 in water, by automated kinetic - potentiom. method, 2H71
 of aliphatically bound, in pharmaceutical preparations, by KOH mineralisation - mercurim., 5E1
 of ^{129}I , by negative-ion surface-ionisation m.s., 1B150
 in environmental materials, by n.a.a., 1H71
 shelf life of soln. of, 2F59
- Iodipamide**, detmn., potentiom., in dimethyl sulphoxide medium, 3E72
- Iodoform**, detmn., by KOH mineralisation - mercurim., 5E1
- Iodomeric sulphides**, see *Mercury iodide sulphides*
- Iohexol**, detmn. in blood plasma, faeces or urine, by h.p.l.c., 6D127
- Ion exchange**, new journal, 3J13
- , **materials for**, alumina as, 6J25
 antimony silicate as, 3J42
 ceric phosphate as, 4J53
 comparison of cellulose and 'Hyphan' as, 3J40
 complexite CG as, 1J60
 copper ferricyanide as, 3B26
 Fractogel TSK as, 6J40
 hydrous TiO_2 fibres as, 4B6
 Fe^{III} , Sn^{IV} and Zr^{IV} iodophosphates as, 5J65
 properties and use of, in inorg. chemistry, 1J94B
 resins as, chelating divinylbenzene - styrene, 3J41
 detmn. of functional groups and of borate and OH^- in AV-17X8, 3J39
 Levextrel, 1B98
 poly(hydroxamic acid), 1J61
 possessing amino-acid-based complexing group bound to hydroxy-ethylmethacrylate gel, 6J41
 thermoanalytical study of anion-exchange, 1B190
 Separon HEMA as, 2J44
 silica gel loaded with Adogen 464 as, 1J59
 spherical polyacrylamide - zirconium phosphate as, 5J67
 stannic arsenate as, 6B3
 (R)-tris-(1,10-phenanthroline)ruthenium^{II}-treated montmorillonite as, 6J42
 zirconium^{IV} arsenosilicate as, 5J66
 zirconium molybdophosphate as, 3B62
- Ion micro-probe analysis**, applications of, in geochemistry and cosmochemistry, review, 3B166
 improved secondary-ion extraction in quadrupole-based, 1J163
- Ion microscopy**, differential-sputtering correction for, with image depth-profiling, 2J79
 image acquisition system for use in, 4J80
- Ion-association reactions**, applications of, review, 5A10
- Ion-beam analysis**, outer-shell excitation in, review, 1J177
 report of conference on, 5A4

Ion-scattering analysis, review, 1J178**Iopanoic acid**, detection of I⁻ and free I in, colour reaction for, 3E2**Iopidione**, detmn. in must or wine, by h.p.l.c., 3G35**Iridium**, concn., on Polyorgs V, 1B27

detmn., amperom., 1B187

biamperom., 4B199

by a.a.s., 1B188, 5B158

by catalytic - spectroph. method, 5B24

by charged-particle activation, 3B12

by flotation - spectroph. method, 1B186

by sub-stoichiometric isotope dilution, 3B162

emission spectrom., extraction method for, 6B24

spectroph., 2B165, 6B177

review, 1B185

with pre-concn. by flotation, 6B178

in Cu - Ni concentrates, stripping voltamm., 3B157

in presence of Au, Pd, Pt and Rh, spectroph., 2B20

of other precious metals, spectroph., 4B22

in sweeps, 1B15

of Ir^{III} and Ir^{IV} in presence of each other, coulom., 4B202

ion-exchange study of, 6B14

sepn. from Bi and Pd, by t.l.c., 1B6

from Au, Pd and Pt, ion-exchange chrom., 1B189

sorption of, by polymeric thioether, 5B159

Iridium, reagents for, crystal violet, 6B178HCl - H₂O₂, 6B177

malachite green, 6B178

nitroso-R salt, 2B165

KI - SnCl₂, 2B20

Rhodamine 6G, 1B186

Iridoid glycosides, sepn. and identn., by t.l.c., 3D266**Iron**, absorption spectra of, in silicate optical glasses, 1B201

analysis, certified reference materials for, 4B170

review, 4A2

use of spectrochem. techniques and computers in, review, 2B145

application of XRF in production of, 3B136

concn. from sea-water, by flotation using two surfactants, 5H50

on quinolin-8-ol-bonded polymer supports, 5H49

from water, by chelating ion exchange, 1H44

on cellulose, 5H51

of Fe^{III} from Ca(NO₃)₂ medium, by selective sorption, 2B16

detection, by forward scattering in transverse magnetic field, 2J107

by synchrotron-radiation XRF, 2J87

of Fe^{II}, colour reactions for, 3A11, 4A10of Fe^{III}, colour reactions for, 1B26, 3A11, 3A13

reaction for, 5B21

detmn., by a.a.s., 5J111

comparison of methods for, 3B11

extraction method for, 2B30

sample-introduction system for, 5J109

sources of error in, 6B23

with addition of graphite powder to sample, 6B147

by a.f.s., with use of volatile chelate sampling, 3B134

by catalytic - spectroph. method, 3B130

by intra-cavity a.a.s., 4B162

by n.a.a., 1B9

emission spectrom., 4J86

spectroph., 2B142, 6B145

BSI method for, 1B153

with collection by adsorption on micro-cryst. naphthalene, 3B9

in air-borne dust, by a.a.s., digestion methods for, 4H8

in alloys, ion-exchange chrom. - a.a.s., 6B148

liquid chrom. - spectroph., 3B131

in aluminium, spectrogr., 2B53

in aluminium or aluminium alloys, emission spectrom., 5B66

in aluminium alloys, by a.a.s., 3B60

in aluminium fluoride, by XRF, 6B62

in barley seeds, by a.a.s., 1G3

in biol. fluids, gel chrom. - emission spectrom., 2D41

in biol. materials, by XRF, 1F4

emission spectrom., 2D33

standards for use in, 2D34

in biol. tissues, emission spectrom., 2D35

comparison of sample-treatment procedures for, 6D15

in blood serum, by flow-injection - a.a.s., method, 4D43

emission spectrom., effect of use of Vacutainer tubes in, 4D20

spectroph., comparison of reagents for automated, 6D44

in brass or bronze, spectrogr., removal of Cu in, 1B36

in brine, by a.a.s. or a.e.s., 4B152

in cereals or flour, by XRF, 6F25

in chromium, by a.a.s., 6B133

in coal, by XRF and X-ray scattering, 6B185

in coal or fuel oil, emission spectrom., with pre-concn. on poly-

(dithiocarbamate) resin, 5B179

in coke, by XRF, sample preparation for, 6B189

in copper alloys, by XRF, 6B38

emission spectrom., arc excitation as source of error in, 4B42

in dimethyl-acetamide or -formamide, square-wave polarogr., 3C107

in estuarine water, by a.a.s., 1H50

in fats or fatty oils, by a.a.s., 4F67

Iron, determination—continued

in fertilisers, comparison of methods for, 5G14

emission spectrom., 2G5

in fly ash reference material, 5A18

in fresh-water particulate matter, by a.a.s., 5H54

in glass for optical fibres, extraction chrom. - spectrogr., 2B174

in graphite, emission spectrom., with pre-concn. on chelating resin,

2B87

in lead, emission spectrom., 2B100

spectroph., 6B146

in lime, by XRF, sample preparation for, 6B189

in liquid samples, spectrogr., 2J108

in lymph, by a.a.s., 4D24

in magnesium, spectrogr., 3B44

spectroph., 6B146

in manganese silicates, by a.a.s., 6B96

in marine samples, review, 4H39

in milk powder, by PIXE, 6F34

in minerals, ores or rocks, by XRF, 3J62, 5B172

comparison of methods for, 1B191

emission spectrom., 4B165

in minerals, ores or rocks, or in their enrichment products, X-ray

spectrosc., 5B38

in mixtures of organometallic compounds, by h.p.l.c. - a.e.s., 6J33

in nickel alloys, amperom. or potentiom., 5B148

emission spectrom., 2B157

in periclase, spectrogr., 2B166

in petroleum or petroleum products, by a.a.s., 4C57

by XRF, 2C76

in pharmaceutical capsules, emission spectrom., 1E14

in plants, by a.a.s., 6D17

by XRF, 6G1

in presence of Co, by differential kinetic - spectroph. method, 4B163

of Co and Ni, by h.p.l.c. of 1-(2-pyridylazo)-2-naphthol complexes,

1B174

by t.l.c. - radiom., 5B12

of other elements, by n.a.a., 5B8

of Ti, differential pulse polarogr., 5B95

in rutile concentrates, spectrogr., 2B105

in sea-water, by a.a.s., extraction method for, 2H45

by isotope dilution - m.s., 6H39

in sediments, acid-extraction - a.a.s., method unsuitable for, 4H41

by a.a.s., 1H52

in serpentine, with electron micro-probe, 5B176

in sewage sludge, by a.a.s., sample pre-treatment for, 4H89

in silicates, by lithium borate fusion - a.a.s., 4B10

by XRF, 2B91

ion-exchange chrom. - a.a.s., 6B148

in single erythrocytes, by PIXE, 3D19

in synthetic cordierite, from X-ray data, 1B157

in tin bronze, spectrogr., 1B42

in titanium alloys, spectrogr., 2B104

in tungsten, by proton activation, 4B147

in uranium, emission spectrom., 1B95

in urine, emission spectrom., 2D36

in water, by a.e.s., 1H48

by PIXE, 1H46

by XRF, with pre-concn. by pptn. of diethyldithiocarbamate, 5H53

spectroph., 3H70

in wine, by a.a.s., 4F58

in zinc, spectrogr., 6B146

in Zircaloy, emission spectrom., 4B114

of Ce in, by co-pptn. with LaF₃ - spectroph., 4B178

of Cu in, by a.a.s., 4B175

of different chemical forms of, in beverages, by selective sorption -

differential pulse polarogr., 2F38

of distribution of, in alloys, by laser irradiation - XRF, 2B146

of elements in, by m.s., 1B170

emission spectrom., 2B18

of elements in materials containing, by XRF, reviews, 4B171, 4B172,

4B173, 4B174

of Fe^{II}, by kinetic - fluorim. method, 4B18

continuous-flow spectrogr., 4B164

potentiom., with hydrantoin deriv. in non-aq. media, 1A16

spectroph., 2B141, 2H72, 3B132, 3B133

voltamm., 5B142

with use of azo-compounds, review, 1A11

of Fe^{II} and Fe^{III} in glass, by spectrogr. titration, 2B175

in minerals, ores or rocks, 4B161

in presence of each other, complexom., 2B139

of Fe^{II}, Fe^{III} and metallic, in metallised iron-ore nodules, complex-

om., 1B156

of Fe^{III}, by adsorption on piezoelectric quartz crystal, 4B160

by catalytic - spectroph. method, 5B24

by ion exchange - continuous-flow enthalpim., 2A4C

by spectrogr. titration, 5B140

complexom., indicators for, 1B154, 2B139

semi-automated, 4J16

photoacoustic spectrom., with concn. by co-pptn. of quinolin-8-

ol complex with naphthalene, 2B143

Iron, determination of Fe^{III}—continued

- spectroph., 1B13, 1B154, 2B140, 2B141, 4B159, 5B141
with collection on microcryst. naphthalene, 1B155
with adsorption of pyrrolidine-1-carbodithioate on naphthalene, 5B143
in presence of other elements, by t.l.c. of anthryglyoxal 4-diethylaminoanil complexes, 1B20
of V, amperom. or potentiom., 4B130
of non-haem and total, in muscle, spectroph., 1F19
of Ni in, spectroph., 3B150
of P and Si in, spectroph., 4B179
of rare-earth metals in, spectroph., 2B147
of speciation of, in beverages or foods, review of sepn. procedures used for, 6F2
in foods, 1F3
of S in, by isotope dilution - spark-source m.s., 2B150
spectroph., 6B154
of Ti in, by PIXE, 2B14
effect of Fe^{II} on chemiluminescence of luminol in absence of H₂O₂, 6A21
extraction-chrom. study of, 6B21
ion-exchange study of Fe^{II}, 6B30
of Fe^{III}, 6B14
sepn. from other elements, by solvent extraction, 4B168
ion chrom., 1B16
of Fe^{II} from Cd and Co, liquid chrom., 2B16
from Ni, by h.p.l.c. of 2,2'-bipyridyl complexes, 5B156
from other elements, by t.l.c., 1B23
from U^{IV} and UO₂²⁺, ion-exchange chrom., 3B78
of Fe^{III} from Co, ion-exchange chrom., 6B163
from other elements, by t.l.c., 3B13
ion-exchange chrom., 5B16
from Ti, ion-exchange chrom., 5B109, 6B106, 6B107
from UO₂²⁺, ion-exchange chrom., 3B78
solvent extraction of Fe^{II}, with dithizone in presence of nitrogenous bases, 4B166
with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - triethylphosphine oxide, 1H45
of Fe^{II} or Fe^{III}, with quinoline-8-carbodithioic acid, 3A14
of Fe^{III}, with decanoic acid in CHCl₃, 5B23
—, **bis-μ-(methylthio)tetrakis(2,2,2-trifluoroethyl)iron(III) complex**, detmn. in pickled vegetables, liquid chrom. - g.l.c. - m.s., 5F56
Iron, reagents for, acetylacetone, 1B42
4-[3-allyl(thioureido)]benzenesulphonic acid, 3A13
4-amino-6-hydroxy-2-mercapto-5-nitrosopyrimidine, 3B132
benzyltrimethyltetradecylammonium chloride - bromopyrogallol red - Na carboxymethylcellulose, 6B146
2,2'-bipyridyl 2-furanocarbothiohydrazide, 3H70
2,4-bis-(5,6-diphenyl-1,2,4-triazin-3-yl)pyridinetetrasulphonic acid, 6D44
1,5-bis(di-2-pyridylmethylene)thiocarbonylhydrazide, 4A10
catechol-3,5-disulphonic acid, 1B42
5'-chloro-2',4'-dihydroxypropionophenone, 1B154
5-chloroindole-2-carboxylic acid, 2B140
Chrome Azurol S, 1B13
5-dimethylamino-2-nitrosophenol, 4B164
ferene S, 6D44
ferrozine, 6D44
α-hydroxyimino-α-(1-methylbenzimidazol-2-yl)acetonitrile, 2B104
8-hydroxy-7-(2-thiazolylazo)quinoline-5-sulphonic acid, 2B141, 3B131
5,5'-methylenediacetic acid, 3A11
morpholine-4-carbodithioic acid K salt, 3B9
1,10-phenanthroline, 1B153
N-phenylbenzohydroxamic acid, 1B155
phthalohydroxamic acid mono-K salt, 5B141
N-(4-picolylamino)salicylphosphonic acid, 4B159
N-(4-picolylamino)salicylphosphonic acid, 4B159
KSCN, 5B21
2-pyridylacetaldehyde salicyloylhydrazide, 2B142
2-[2-(2-pyridylmethyleneamino)ethylamino]ethylamine Zn complex, 2H72
N-2-pyridyl-2-sulphobenzamide Na salt - SCN⁻, 6B145
pyrrolidine-1-carbodithioic acid, 5B143
sulphonated 4,7-diphenyl-1,10-phenanthroline, 1F19
tetrazolium salts, 3B133
4-(2-thiazolylazo)resorcinol, 2B141
thiosemicarbazones of hydroxybenzophenones, 1B26
Iron alloys, see also Incoloy 800H; Magnetic materials; Steel
analysis, review, 4A2
detmn. of Sb in, a.c. stripping voltamm., 2B148
of Ce and La in, spectroph., 2B66
of Ce, La, Nd and Pr in hydriding, emission spectrom., 2B158
of elements in, by XRF, 4B187
review, 4B172, 4B173
of elements in corrosion products of, emission spectrom., 3B154, 3B155
of Ga in, by a.a.s., 4B176
of S in, by isotope dilution - spark-source m.s., 2B150
secondary-ion microsc. study of H in, 1A1C
—, **Fe - Al - Cu - Mn**, detmn. of Mn in, spectrogr., 6B143

Iron alloys—continued

- , **Fe - Cr - Ni**, detmn. of elements in, by m.s., 1B170
—, **Fe - Co - Ni**, detmn. of Th and U in, by secondary-ion m.s., 1B204
—, **Fe - Mo**, detmn. of Mo in, gravim., 6B135
—, **Fe - Nb**, detmn. of Si in, titrim., 1B169
of Ta in, by a.a.s., 6B156
of W in, spectroph., 2B149
—, **Fe - Ti**, detmn. of Ti in, spectroph., 6B104
—, **Fe - V**, detmn. of Fe and V in, amperom. or potentiom., 4B130
Iron(III) chloride, detmn. of chemical forms of ³⁵S in reactor-irradiated mixtures with aluminium chloride of, 3B115
Iron complexes, of Fe^{III} with aminocarboxylic acids, sepn., by h.p.l.c., 4B167
with catechol violet and hexadecyltrimethylammonium ions, 5B9
sepn. of binuclear alkyne - carbonyl, by h.p.l.c., 5C28
with trifluoroacetylacetone, effect of ligand doping on g.c. of, 2C44
Iron ores, detmn. of ¹⁰Be-to-¹¹Be ratio in ferromanganese deposits, with tandem accelerator, 2H51
of elements in, by a.a.s. or a.e.s., sepn. method for use in, 4B168
by lithium borate fusion - a.a.s., 4B10
by PIXE, 2B3
by XRF, review, 4B171
of F in, by combustion - potentiom., with ion-selective electrode, 3H6
of Ga in, by a.a.s., 6B150
of Fe^{II}, Fe^{III} and metallic Fe in, complexom., 1B156
of P in, spectroph., 2B110
of stearic oxide in pigments based on, potentiom., 1C125
of S in, by isotope dilution - spark-source m.s., 2B150
Iron sulphides, comparison of Auger-electron and X-ray photoelectron spectrom. studies of, 4B13
Isoamylases, see under *Enzymes, specific*
Isoascorbate, detmn. in cured meat, by h.p.l.c., 4F35
Isobutene, perfluoro-, generation and g.l.c. detmn. of reference material, 2C16
Isobutyl alcohol, detmn. in gasoline, by g.c., 2C66
in gasoline blends, by g.c., 1C78
in whisky, by g.l.c., 4F63
Isochondrodendrine, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
Isocitronellene, sepn. of enantiomers of, by h.p.l.c., 1C18
Isocorydine, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
Isocyanates, organic, detmn. in air, by g.l.c., 5H38
using paper-tape monitor, 1H40
of aromatic, in air, by h.p.l.c., as ethylurethans, 3H38
—, **2-heptyloxyphenyl**, analytical data for, 2E47
Isoelectric focusing, apparatus for, suitable for various techniques, 3J43
in immobilised pH gradients, 4J57
Isoflavones, sepn. and detmn., by h.p.l.c., 1C63
α-Isolupanine, identn. and detmn. in lupin seeds, by g.c. and g.c. - m.s., 5G22
Isoniazid, detection, colour reaction for, and detmn., in liver tissue or pharmaceutical preparations, spectroph., 4E74
detmn., titrim., 4E73
in pharmaceutical preparations, by h.p.l.c., 3E66
iodim., 2E59
spectroph., 3E67, 4E72
of impurities in, by h.p.l.c., t.l.c. or u.v. spectroph., 4E75
Isophorone, detmn. in waste water, by g.l.c., 2H100
Isophthalic acid, detmn. in raw materials for poly(ethylene terephthalate) production, by g.l.c. of methyl ester, 5C83
Isophytol, detmn. in presence of related compounds, by g.c., 3D96
Isoprenaline sulphate, detmn. in pharmaceutical preparations, paper chrom. - spectroph. (or u.v. spectroph.), 6E47
Isopropcarb, detmn. in rice, by g.l.c., 6G37
sepn. from other carbamates, by t.l.c., 1G36
Isopropalin, sepn. from related herbicides, by g.c., 1G29
Isopropylamine, detection, colour reaction for, 6C23
Isoquinoline, sepn. from other aza-arenes, by t.l.c., 1C65
Isoquinoline derivatives, methyl, sepn. from other aza-arenes and from each other, by t.l.c., 1C65
Isoisomenine A, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
Isosorbide dinitrate, detmn. in blood plasma, by h.p.l.c., 3D105
with its metabolites, by h.p.l.c. - thermal energy analysis, 3D106
in pharmaceutical preparations, by h.p.l.c., 3E54
Isotachopheresis, analyses of anions at high pH by, 5J71
applications of, in clinical analysis, review, 4D1
capillary technique for, discontinuous fractionation for, 3J46
review, 4J58
u.v. detection in, for use in bioavailability studies, 4J59
computer prediction of optimum sepn. conditions for org. acids in, 3J45
effect of electro-osmosis on detection in, 5J72
factors affecting quantitative indices in computer-simulated, and its analytical usefulness, 5J73
sepn. and detmn. of cations by, 2E2
Isotope-dilution analysis, evaluation of calibration curve non-linearity in g.c. - m.s., 1J182

Isotopic analysis, by m.s., 6A7C
 with laser micro-probe mass analyser, 1A1C
Isovaleric acid, see *Butyric acid*, 3-methyl-
Isoverin, detmn. in pharmaceutical preparations, non-aq. titrim., 4E84
Isovitexin 7-glucoside, detection and identn., by t.l.c., 3D266
Isoxazolo[5,4-c]pyridin-3-ol, 4,5,6,7-tetrahydro-, detmn. in blood serum, by h.p.l.c. of dansyl deriv., 6D130
Isoxsuprine hydrochloride, detmn., spectroph., 3E58, 4E4

J

Jams, detmn. of benzoic acid and sorbic acid in, second-deriv. u.v. spectroph., 5F17
 of sugars in, by h.p.l.c., 4F8
 of SO₂ in, by steam-distillation - iodim., 2F13
Jamaicin, isolation and detmn. in *Piscidia erythrina*, by t.l.c. and h.p.l.c., 5D97
Jasmolin, detmn. of I and II, in pyrethrum extracts, by g.l.c., 4G23
Jellies, detection of geniposide in, by h.p.l.c. or t.l.c., 4F14
Jet fuel, analysis of non-polar fraction of, by h.p.l.c. - FT i.r. spectrom., 5J49
Juniper, detmn. of biphenyl and biphenyl-2-ol in, by t.l.c. - u.v. spectroph., 1E52

K

Kallikrein, see under *Enzymes, specific*
Kanamycin, detmn. in presence of other aminoglycosides, by h.p.l.c., 4D64
 — **sulphate**, detection of penicillin in preparations of, by t.l.c., 1E38
Kebuzone, detmn., non-aq. titrim., 5E27
Keratin, detection of epidermal, gel electroph., selection of silver staining procedure for, 2D238
 detmn. of cysteine and cysteine in hydrolysates of wool, paper chrom., 1C104
Kerosine, detmn. of bromine number of, coulom., 6C49
Ketamine, detmn. in blood plasma, with its metabolite, by g.l.c., 4D104
 in pharmaceutical preparations, polarogr., 4E45
Ketanserin, detmn. in blood, blood plasma or urine, by h.p.l.c., 3D111
 in blood plasma, by h.p.l.c., 3D129
Ketazolam, detection in urine, by t.l.c., 4D96
Ketobemidone, detmn. in blood plasma, with its metabolite, by g.l.c. of ethoxycarbonyl deriv. - m.s., 4D92
Ketone, ethyl methyl, detmn. in air, by g.l.c., 5H42
 with Organic Vapour Monitor, 1C4
 in products of oxidative pyrolysis of polyethylene, by g.c. and g.c. - m.s., 2C113
 —, **isobutyl methyl**, detmn. in air, by g.l.c., 5H42
Ketones, detection, by h.p.l.c., 1C110
 detmn. by g.c., 2C11
 by h.p.l.c. with on-line solid-phase reduction, 5C19
 in sea-water, review, 1H72
 of H₂O in, by Karl Fischer method, 1C14
 identn., by chemical-ionisation m.s., 2C7
 by g.c., 3C1
 in fried bacon, by g.c., g.c. and i.r. spectrom., 3F24
 identn. and detmn. in environmental materials, by triple-quadrupole m.s., 4H68
 —, **aliphatic**, detmn. of low-mol.-wt., in car-exhaust gases, by g.l.c., 2C73
 —, **di-**, detmn. of *vic-*, in brewing materials, by g.c., review, 6F58
 luminescence of β -, in frozen soln., 3C30
 —, **polycyclic aromatic**, detmn. in air-borne dust, by g.c. and g.c. - m.s., 4H26
 identn. in emissions from straw or wood combustion, liquid chrom. - g.c. - m.s., 1H37
Ketotifen, analytical data for, 6E55
 detmn. in blood plasma, with its metabolites, by g.c. - m.s., 2D94
Khellin, detmn. in pharmaceutical preparations, cerim., 5E13
Kidney tissue, assay of glutathione peroxidase, reductase (NAD(P)H) and transferase in, with Centrifuge 400 centrifugal analyser, 4D307
 of 25-hydroxyvitamin D 1 α -hydroxylase in, by h.p.l.c. - protein-binding method, 4D312
 of Na - K-dependent adenosinetriphosphatase in isolated proximal tubules of, by kinetic method, 3D314
 detection of fenthion in, by t.l.c., 4D137
 detmn. of aminoglycosides in cortex, by h.p.l.c., 4D64
 of As in, spectroph., 1D46
 of As, Cd and Hg in, by n.a.a., 6D22
 of elements in, emission spectrom., 2D35
 matrix effects in, 1D20
 of folate co-factors in, by h.p.l.c., 5D190
 of glycerol formal in, by g.l.c. - chemical-ionisation m.s., 6D120
 of metallothionein I in, by r.i.a., 6D232
 of ochratoxin A in, by h.p.l.c. of O-methyl - methyl ester deriv., 5F36
 of 5-oxopyrrolidine-2-carboxylic acid in, by h.p.l.c. of 4-nitrophenacyl ester, 5D123
 of phosphates in, with Bessman phosphate analyser, 6D12
 of quinolinic acid in, u.v. spectroph., 1D163

Kidney tissue, determination—continued

of vitamin U in, liquid chrom. - t.l.c. - g.l.c. of decomposition product, 4D305
 sepn. of alkaline phosphatase isoenzymes of, by gel filtration - chromatofocusing, 2D291
Kinetic analysis, 5A32B
 stopped-flow instruments for studies using immobilised enzymes, 2J8
Kinin, detmn. in blood or blood plasma, by r.i.a., 4D231
Kininases, see under *Enzymes, specific*
Kininogenin, see *Enzymes, specific*, kallikrein
Krill, analysis of carotenoids from, by h.p.l.c., 1D220
Krypton, detmn. in fission gas from nuclear fuel, by m.s., 2B79

L

LAMPA, see *Lysergic acid methylpropylamide*
LSD, see *Lysergide*
Laboratory apparatus, see also headings such as *Mixing*; *Weighing*; etc.
 automated variable-temp. liquid-N cold trap, 2J2
 calibration of pipetters, 2J3
 glass-sample-tube breaker, 6J3
 low-cost, all-glass micro ovens, 2J1
 prevention of contamination from PTFE, in ultra-trace analysis, 6J1
 properties and applications of glass, 6J2
Laciniene C 7-methyl ether, detmn. in cotton bracts, liquid chrom., 5D96
 in cotton dust or related materials, by h.p.l.c., extraction methods for, 2C107
Lacquers, analysis of thinner for, by g.c. - FT i.r. spectrom. - m.s., 1J90
Lactate, detmn., amperom., with enzyme electrode, 3D160
 indirect spectroph., 3C32
 in blood plasma, enzymic - fluorim., 6D160
 sepn. from other anions, by isotachopheresis, 3J45
 from other org. anions, high-performance ion chrom., 5B3
Lactate dehydrogenase, see under *Enzymes, specific*
Lactic acid, detmn. in blood plasma, by g.l.c., 1D121, 2D140
 in coffee, by isotachopheresis, 3F42
 in lactic acid-fermented vegetables, by h.p.l.c., 5F51
 in sauerkraut brine, by isotachopheresis, 2F36
 in silage, by h.p.l.c., 3G23
 in sugar-factory products, automated, 5F21
 by g.l.c. of butyl ester, 4F21
 in wine, by isotachopheresis, 6F68
 by t.l.c., 3F51
 sepn. from other org. acids, anion chrom., 2C29
 of enantiomers of, by g.c., derivatisation reagents for, 4C4
Lactoferrin, detmn. in biol. fluids, by enzyme immunoassay, 6D238
 β -Lactoglobulin, detmn., turbidim., comparison of sensitivities of methods for, 2D243
Lacto-N-neotetraose, isolation from human milk, paper chrom. - h.p.l.c., 6D149
Lactose, detmn., by chemiluminescence method, 1C8
 in antibiotic fermentation mixtures, by t.l.c., 6E24
 in lactose-reduced milk, by h.p.l.c., 6F38
 in milk, by t.l.c. - densitom., 4F44
 in wine, liquid chrom. - triple-pulse amperom., 5F68
 of α - and β -, in dairy products, by h.p.l.c., 2F29
 identn. in heroin powder, by NH₃ reaction, 1E22
 sepn. from other sugars and detmn. in milk, by h.p.l.c., 5F47
Lanolin, detmn. of heavy metals in, voltamm., 3E1
Lanosterol, sepn. from its dihydro-deriv., by t.l.c., 2D170
Lantadene A, detmn., spectroph., 2D147
Lanthanoids, see *Rare-earth metals*
Lanthanum, concn., by Donnan dialysis, 1B25
 detmn., amperom., 1B84, 5B77
 by luminescence method, 2B65
 gravim., 4B81
 in alloys, spectroph., 2B66
 in coal or fuel oil, emission spectrom., with pre-concn. on poly(dithiocarbamate) resin, 5B179
 in copper, flame photom., with sepn. by amalgam electrolysis, 6B36
 in gadolinium lanthanum oxide sulphide, polarogr., 6B195
 in hydriding alloys, emission spectrom., 2B158
 in presence of Ce, Nd, Pr, and Sm, by h.p.l.c. - spectroph., 2B63
 of Ce, Ti and U, ion-exchange chrom. - spectroph., 5B19
 of Gd, spectroph., 3B65
 of Ho or Tm, spectroph. - titrim., 4B80
 of other rare-earth metals, by t.l.c. - spectroph., 6B68
 in silicates, by n.a.a., interference from U in, 6B95
 spectroph., 1B107
 in yttrium oxide, emission spectrom., 2B62
 sepn. from Dy, Er, Gd, Ho and Sm, magneto-paper electroph., 3B15
 from Th, liquid chrom., 2B16
 from Zr, by t.l.c., 6B3, 6B110
Lanthanum, reagents for, arsenazo III, 2B63
 arsenazo III - Na molybdate, 2B66
 2,2'-bipyridyl - Chrome Azurol S - dodecylpyridinium chloride, 3B65
 chlorophosphonazo III, 6B68
 hexadecyltrimethylammonium ion - 8-hydroxyquinoline-5-sulphonate, 2B65

Lanthanum, reagents for—continued*N-p*-tolylloxamic acid, 4B81**Lanthanum complexes**, with diethylenetriaminepenta-acetic acid or EDTA, detmn. in water, by a.a.s., 3H74
with Eriochrome cyanine R, 1B69**Lanthanum oxide**, detmn. of rare-earth metals in, emission spectrom., 1B85**Lard**, detection and detmn. in ghee, by g.l.c. analysis of unsaponifiable matter, 1F31
detmn. of antioxidants in, collaborative study of h.p.l.c. method for, 5F75**Lasaloid**, detmn. in blood, by h.p.l.c., 1D94— **sodium**, detmn. in liver tissue, by h.p.l.c., 1F23

by pyrolysis of TMS deriv. - g.c. - m.s., 1F24

Laser micro-probe mass analysis, apparatus for, 1J154, 1J155

of org. compounds adsorbed on asbestos fibres, 4C5

report of conference on, 1A1

Lasers, chrom. detector systems based on, review, 3J15

detmn., of Nd in aluminium yttrium garnet rods for, spectroph., 6B194

Latices, detmn. of Ca in, complexom., 4C84

of gel content of acrylic, size-exclusion chrom., 4C85

Lead, BSI colorim. limit test for, in glycerol, 1C23

concn. by ion flotation, 4B14

on polyether-based polyurethane foam, 2B11

from sea-water, on quinolin-8-ol-bonded polymer supports, 5H49

from water, by chelating ion exchange, 1H44

by co-pptn. - flotation, 4H38

on cellulose, 5H51

detection, by forward scattering in transverse magnetic field, 2J107

by synchrotron-radiation XRF, 2J87

pptn. reaction for, 6B11

reaction for, 5B21

in water, automated, review, 6H41

detmn., anodic-stripping voltamm., 1H53

comparison of methods for, 2B10

effects of surfactants in, 2B13

by a.a.s., 5J111

atomisers for, 2J103

automated system for, 2H55

comparison of methods for, 3B11

m.s. study of atomisation in, 6B101

sample-introduction system for, 5J109

suppression of Cl⁻ interference in, 4B15

with automated sample pre-concn., 1B11

by isotope dilution - m.s., 5B104

by XRF, gelatin-film calibration standard for, 1J98

differential pulse anodic-stripping voltamm., with flow-injection system, 2B99

emission spectrom., 4J86, 6J94

reduction of interferences in, 3J84

reduction of MgCl₂ interference in, 4J85

indirect titrim., by iodide amplification, 4B113

potentiom., ion-selective electrodes for, 1J192, 3J134

stripping potentiom., 3J151, 3J152

automated, review, 4J141

in air, by a.a.s., field sampler for, 2H13

by chromato - a.a.s., 2J74

by XRF, 1H17

in air-borne dust, by a.a.s., digestion methods for, 4H8

extraction method for, 1H2

with laser micro-probe mass analyser, 3H12

in alloys, by a.a.s., 3B96

in aluminium or aluminium alloys, by a.a.s., 1B72

in beer, by a.a.s., 6F62

in beverages, by a.a.s., 4F56

in biol. materials, by XRF, 1F4

differential pulse anodic-stripping voltamm., 4D23

emission spectrom., 2D33

standards for use in, 2D34

spectrogr., 5D12

in biol. tissues, emission spectrom., 2D35

comparison of sample-treatment procedures for, 6D15

in blood, by a.a.s., 1D41, 4D33, 6J89

effect of container material, storage time and temp. in, 3D35

matrix effects in, 3D42

O ashing and matrix modifiers for, 6D35

by a.f.s., 1D40

by isotope dilution - plasma-source m.s., 2J146

by Zeeman a.a.s., 1D32

automated, 6D18

in blood serum, by a.a.s., 6J89

in bone tissue, by a.a.s., 3D41

in brine, by a.a.s., 4B152

in coal or fuel oil, emission spectrom., with pre-concn. on poly-(dithiocarbamate) resin, 5B179

in copper, by m.s., 3J104

in copper alloys, by XRF, 6B38

emission spectrom., arc excitation as source of error in, 4B42

in drugs, by a.a.s., 4E5

in environmental materials, by h.p.l.c. of chelate complexes, 2H43

Lead, determination—continued

in estuarine water, anodic-stripping voltamm., 4H55

by a.a.s., 1H50

in fertilisers, emission spectrom., 2G5

in fish tissues, anodic-stripping voltamm., 5F40

in fly ash reference material, 5A18

in foods, polarogr., 5F2

in fruit, spectroph., 3F36

in glass, by γ -ray attenuation, 4B210

in hair, by photon activation, 1D19

in halide matrices, by a.a.s., 5B20

in high-salinity water, by a.a.s. and a.e.s., 6H67

in honey, by a.a.s., 4F23

in human milk, by a.a.s., 5D18

in industrial materials, anodic-stripping voltamm., 5B10

in leachate from ceramics, by a.a.s., 5B182

in liquid samples, spectrogr., 2J108

in liver tissue, by a.a.s., 3D18

by Zeeman a.a.s., 1D42

in magnesium, spectrogr., 3B44

in marine samples, review, 4H39

in mercury, voltamm., 5B62

in minerals, ores or rocks, by a.a.s., 6B102

by XRF, effect of composition and particle size of sample in, 1B111

in nervous tissue, by isotope dilution - m.s., 1D30

in nickel, anodic-stripping voltamm., 2B159

by m.s., 3J104

in nickel alloys, by a.a.s., 2J105, 5B157

in nickel(II) oxide, polarogr., twin-cell deriv. and second-deriv. tech-

niques for, 1B177

in petroleum or petroleum products, by a.a.s., with use of emulsions

and of aq. standards, 1C76

by chromato - a.a.s., 2J74

by XRF, 2C76

in pharmaceutical raw materials and active compounds, voltamm.,

3E1

in plants, a.c. polarogr., 2D39

by a.a.s., 6D17

by h.p.l.c., 4D25

by XRF, 6G1

certified reference materials for, 6D14

in presence of other elements, by h.p.l.c. - spectroph., 5B13

gravim., 6B16

in reference fuels, by a.a.s., 4C51

in sea-water, anodic-stripping voltamm., 4H45

preparation of sample containers for, 2H42

by a.a.s., 1H63

extraction method for, 2H45

interferences in, 1H51

by isotope dilution - m.s., 6H39

in sediments, by acid extraction - a.a.s., 4H41

by a.a.s., 1H52

in sediments or sewage sludge, by a.a.s., interferences in, 3H44

in semiconducting materials, spectroph., 3B180

in sewage sludge, by a.a.s., 1H86

sample pre-treatment for, 4H89

by XRF, 3H93

by t.l.c. - remission spectroph., 2H96

in silicates, by lithium borate fusion - a.a.s., 4B10

spectrogr., 1B107

in sodium chloride, anodic-stripping voltamm., 4H45

in soil, by a.a.s., 1G13

by atom-trapping a.a.s., 2G3, 3J74

spectroph., 3F36

in soil air, stripping potentiom., 3G9

in sulphates, spectroph., 5B103

in tin, by a.a.s., 5B102

in triuranium octaoxide, emission spectrom., 5B87

in urine, by a.a.s., matrix effects in, 3D42

specific gravity adjustment in, 3D7

in vegetables, spectroph., 3F36

in waste water, emission spectrom., 1H88

inverse voltamm., 6H66

in water, anodic-stripping voltamm., 4H45, 4H56

by a.a.s., extraction method for, 1H2

using stabilised-temp. platform furnace, 1H47

with pre-concn. by co-pptn., 2H44

by a.e.s., 1H48

by automated flow-injection - potentiom. stripping method, 2H48

in presence of humic acids, anodic-stripping voltamm., 1H53

polarogr., 1H64

in whisky, by a.a.s., 4F63

in wine, by a.a.s., 4F58

in zinc, zinc chloride or zinc oxide, anodic-stripping voltamm., 4B58

of Sb, As, Cu and Sn in, by n.a.s., for comparison of bullet speci-

mens, 6B103

of Bi in, spectroph., 6B104

of Br-to-Pb ratio in air-borne dust, review, 1H22

of different chemical forms of, by h.p.l.c. - spectroph., 5H39

in water, by g.c. of tetra-alkyl deriv. - a.a.s., 2H85

Lead, determination—continued

- of Au in, fluorim., 5B43
- spectroph., 1B45
- of impurities in, emission spectrom., sepn. methods for, 2B100
- of Fe in, spectroph., 6B146
- of isotopic ratios of, using plasma ion source, 2B98
- of ^{210}Pb , with use of solid-state detectors for spectrometry of conversion electrons, 5B105
- in sediments, correction for self-absorption in, 3H56
- of Hg in intermediates and wastes from production of, by a.a.s., 5B108
- of Pd, Rh and Ru in, by a.e.s. or a.e.s. - XRF, 6B78
- of Ag in, fluorim., 1B112
- of speciation of, by a.a.s., 5J117
- ion-exchange study of, 6B14
- sepn. from Co. ion-exchange chrom., 6B163
- from Co, Cu and Ni, or from Sn, by ion flotation, 4B14
- from Cu or Hg, with xanthated Sephadex, 1B22
- from Cu or Ni and Ag, with cyclic amplification by successive pptn. - filtration, 6B12
- from Ga, ion-exchange chrom., 2B56
- from other elements, by ion exchange, 5J65
- by t.l.c., 1B23, 3B13
- ion chrom., 1B16
- ion-exchange chrom., 5B17, 6B15
- of ^{210}Pb from ^{210}Bi , by ion exchange, 4J53
- from ^{210}Bi and ^{210}Po , ion-exchange chrom., 6B17
- from environmental samples, by diethyldithiocarbamate extraction, 4B140
- solvent extraction of, with aq. systems from organometallic - halide extracts, 1B14
- with dibenzo-18-crown-5 and sulphonphthalein dyes, 3B7, 3B25
- with dibromodibenzo-18-crown-6 and dye anions, 3B8
- with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - trioctylphosphine oxide, 1H45
- with quinoline-8-carbodithioic acid, 3A14
- with sulphonamide chelating agents, 5B11
- with tetrachlorodithionates, 1B17
- , **butyltriethyl-**, detmn., in tetraethyl-lead, by g.l.c., 2C72
- , **tetraethyl-**, analysis of volatile impurities in, by g.l.c., 2C72
- concn. from air, comparison of adsorbents for, 3H23
- , **triethyl(isobutyl)-**, detmn. in tetraethyl-lead, by g.l.c., 2C72
- Lead, reagents for**, Br⁻ - malachite green, 3B180, 5B103
- dithizone, 3F36
- K₂HgI₄, 6B11
- K₂CS₃, 6B16
- 4-(2-pyridylazo)resorcinol, 5H39
- thioacetamide, 5B21
- Lead alloys**, detmn. of Ni in, coulom., 2B156
- , **Pb - Sb**, detmn. of thickness and element concn. of coatings of, by XRF, 2B151
- Lead complex**, with 4-benzoyl-3-methyl-1-phenylpyrazoline-5-thione, 1A9
- Lead compounds**, detmn. of alkyl, in air or gasoline, by chromat. - a.a.s., 2J74
- of di-, tri-, and tetra-alkyl, in water, by g.c. of tetra-alkyl deriv. - a.a.s., 2H85
- of tetra-alkyl, by g.c., 6C52
- in air, biol. tissues, fodder or water, by a.a.s., 5H5
- of trialkyl, by n-butylation - g.c., 2H102
- sepn. and detmn. of Pb²⁺ and tetra-alkyl, by h.p.l.c. - spectroph., 5H39
- speciation of halides of trialkyl, by g.c., 3C79
- Lead ores**, detmn. of Cd in Zn-containing, spectroph., 5B54
- of elements in concentrates of Zn-containing, by XRF, effect of composition and particle size of sample in, 1B111
- of Ag in, spectroph., 6B41
- Lead(II) oxide**, detection of impurities in, spectrogr., 1J122
- Lead sulphide**, comparison of Auger-electron and X-ray photoelectron spectrom. studies of, 4B13
- detmn. of elements in, by n.a.a., 5B107
- of impurities in, spectrosc., 5B106
- Lead telluride**, analysis of non-stoichiometric, Auger-electron spectrom., 1B205
- Lecithin**, see *Phosphatidylcholine*
- Leeks**, detmn. of Se in, comparison of methods for, 5F49
- Legumes**, detmn. of ^{137}Cs and ^{90}Sr in, sample preparation for, 1G2
- of convicine and vicine in, enzymic - spectroph., 3F40
- of phytate in, review, 5F27
- Lemon juice**, detmn. of ascorbic acid in, spectroph., 1D250
- Lemon oil**, sepn. of terpenes from, liquid chrom., 4J30
- Lemons**, detmn. of 1,2-dibromoethane in, by g.c., with clean-up using H₂SO₄, 1G35
- Lepidolite**, analysis, by secondary-ion m.s. and with laser micro-probe mass analyser, 6B93
- Lettuce**, detmn. of Br in, by g.l.c., as 2-bromoethanol, 5F50
- of dithiocarbamate fungicides in, by h.p.l.c., 3G37
- of *cis*- and *trans*-permethrin in, by h.p.l.c., 6G38
- Leucine**, detmn. in brain tissue, by g.l.c. of pentafluoropropionyl deriv. of hexafluoropropyl ester - m.s., 1D175
- of D-, in foods, by g.l.c. of *N*-pentafluoropropionyl deriv. of isopropyl ester, 1F7

Leucine—continued

- sepn. of enantiomers of, by h.p.l.c. of *N*-acetyl deriv. of methyl ester, 4J34
- Leucocytes**, analysis of phospholipids of polymorphonuclear, by t.l.c., 2D157
- detmn. of thyroxine and tri-iodothyronine in, by r.i.a., 2D219
- Leukotrienes**, detmn. in biol. fluids, by h.p.l.c., 6D171
- isolation, characterisation and detmn., by h.p.l.c., review, 2D148
- **B₄**, detmn., by r.i.a., 6D172
- **C₄**, detmn., by r.i.a., 5D108
- Levodopa**, detmn. in biol. fluids, by h.p.l.c., 2D72
- of enantiomeric purity of, by h.p.l.c., 3E17
- Levomopromazine**, identn. of metabolites of, in blood plasma or erythrocytes, by g.c. - m.s., 1D69
- Lichens**, sepn. of metabolites of, by h.p.l.c., 2J19
- Lignin**, detmn. of alkoxy-groups in, by Zeisel cleavage - g.l.c., 6C74
- extraction from ground wood, 3J9
- Ligninsulphonate**, detmn. in presence of humic acids and optical brightener, fluorim., 4H83, 6A17
- Lignite**, detmn. of pyrite in, thermomagnetogravim., 2A4C
- Lignocaine**, detmn. in biol. tissues or blood, by g.l.c., 6D98
- Lignocellulose**, detmn. of sol. and insol. glucose oligomers in hydrolysates of, colorim., 5C76
- Lime**, detmn. of elements in, by XRF, sample preparation for, 6B189
- Limestone**, detmn. of elements in, by PIXE, 2B3
- by XRF, review, 4B172
- of P in, emission spectrom., 6B196
- Linalool**, detmn. in presence of related compounds, by g.c., 3C96
- Lincomycin**, detection in feeding-stuffs, by t.l.c., 1G22
- Linuron**, detmn. in carrot extracts, with its metabolite, by g.l.c. of heptafluorobutyl deriv., 6G25
- in soil, by g.l.c. of iodo-deriv., extraction method for, 2G10
- Lipases**, see under *Enzymes, specific*
- Lipids**, see also *Glycolipids; Phospholipids*
- analysis, 3D322B
- by t.l.c. on Chromarods, problems arising in, 2D154
- by 'three-way' t.l.c., 5D109
- by two-dimensional t.l.c., review, 5J74
- liquid chrom., with flame ionisation detector, 1D128
- of blood-plasma, by field-desorption m.s., 2D155
- of fatty acids in, by hydrazinolysis - g.l.c., 2D153
- of labelled myocardial, by t.l.c. - scintillation counting, 3D169
- of liver-tissue, by t.l.c. - spectrosc. - g.l.c., 3D170
- of marine, by t.l.c. on Chromarods, 6D174
- detection and detmn., by t.l.c., comparison of reagents for, 6D175
- detmn. of carotenoids and neutral lipids in microbial, by h.p.l.c., 1D219
- of cerebroside, free fatty acids and sphingomyelin in brain- or liver-tissue, by t.l.c., 3D171
- of cholesterol in tissue, enzymic, 2D169
- of ergosterol and hydrocarbons in samples from bio-mass grown on hydrocarbons, liquid chrom. - gravim. - spectroph., 1D135
- of neutral and polar, in beef, comparison of solvent-extraction methods for, 4F32
- of products of *in vivo* peroxidation of, by h.p.l.c. and by g.l.c. of TMS deriv. - m.s., 5D110
- isolation of *trans*-hexadecenoic and *trans*-octadecenoic acids from extracts of, by t.l.c. of methyl esters, 3D162
- sepn. and detmn. of glycerol, using combination of analytical techniques, 4D163
- Lipopolysaccharides**, detmn. of deoxy-sugars in, spectroph., 2D127
- Lipoproteins**, detmn. in blood serum, comparison of methods for, 6D251
- of apolipoprotein B in low-density, by radial immunodiffusion, 6D252
- of carbohydrate content of, by tungstophosphate - MgCl₂ pptn. - colorim., 1D217
- of cholesterol in blood-plasma high-density, comparison of sepn. methods for use in, 2D166
- of cholesterol in blood-serum, enzymic - fluorim., with direct measurement in effluent from zonal rotor, 6D185
- of cholesterol in blood-serum high-density, effect of sample storage in, 3D184
- enzymic - spectroph., 2D167, 4D168
- of cholesterol in fractions of blood-serum, comparison of methods for, 3D183, 6D184
- of cholesterol in high-density, comparison of methods for, 3D181
- interferences by pptg. reagents used in, 2D168
- inter-laboratory study of, 3D182
- review, 3D180
- of fractions of, in blood serum, with use of MgCO₃ or MgCO₃ - Mg₂SiO₄ adsorption, 2D165
- of low-density, in blood serum, by kinetic - turbidim. method, 4D266
- of pathological, counter-immuno-electroph., 4D267
- of phosphatidylcholine in blood-serum high-density, enzymic, 4D167
- of sub-fractions of high-density blood-serum, gel electroph. - g.c., 1D215
- isolation and detmn. of sub-fractions of high-density, with use of ultra-centrifugation, 4D265
- sepn. of blood-plasma, and detmn. of mol. wt. of low-density, by high-performance gel filtration, 2D256
- sepn. and detmn. of blood-serum, gel electroph. - densitom., 5D167

Lipoproteins—continued

— X, detmn. in blood serum, by spectroph. detmn. of cholesterol content, 4D269
turbidim., 3D262

Liquids, analysers for, 2I13B

generation of test-vapour mixtures from, by capillary diffusion, 3J3
Liquorice, detmn. of glycyrrhizin in products containing, by h.p.l.c., 3F18
Lisetin, isolation and detmn. in *Piscidia erythrina*, by t.l.c. and h.p.l.c., 5D97

Lithium, detmn., by isotope dilution - m.s., 2B24

laser-enhanced-ionisation spectrom., 3J86
in boric acid, by a.a.s., with sample decomposition in HF, 4J5
in minerals, ores or rocks, ion-exchange chrom. - ring-oven fluorim., 6B28

in photographic film, with laser micro-probe, 6J100

in sediments, by n.a.a., 3H45

in sugilite, by proton activation, 3B22

sepn. from other alkali and alkaline-earth metals, by h.p.l.c., 4B29

of isotopes of, continuous-displacement chrom., 2B25

displacement chrom., 4B31

solvent extraction of, as picrate, with crown ethers having co-ordinating side-chains, 4A7

with dibenzo-18-crown-6 and sulphonphthalein dyes, 3B25

Lithium, reagent for, quinolin-8-ol, 6B28**Lithium aluminosilicate**, detmn. of Ag in glass of, spectrogr., 2E172**Lithium chloride**, detmn. in spinning soln. for polyamide fibres, potentiom., 3C105**Lithium fluoride**, detmn. of Li in thin deposits of, by isotope dilution - m.s., 2B24**Lithium tantalate**, detmn. of Ta in, potentiom., with TaF₆⁻-selective electrode, 2B120**Lithocholic acid**, detmn. by h.p.l.c., derivatisation with anthronitriles for, 4D173**Liver tissue**, analysis of lipids of, by t.l.c. - spectrosc. - g.l.c., 3D170

of phospholipids of, by t.l.c., 2D157

assay of δ -aminolevulinic synthase in, radiom., 5D207

of aspartate aminotransferase in cytosol extracts from, spectroph., 3D291

of debrisoquine 4-hydroxylase in microsomal fractions of, by g.c. - m.s., 2D307

of glutaryl-CoA dehydrogenase in, 5D202

of glutathione peroxidase, reductase (NAD(P)H) and transferase in, with Centrifichem 400 centrifugal analyser, 4D307

of GTP cyclohydrolase in, by h.p.l.c. - fluorim., 2D303

of kininases in, fluorim., 3D289

of methionine adenosyltransferase in homogenate of, paper chrom. - radiom., 1D260

of porphobilinogen synthase in, fluorim., 5D231

of UDPglucuronosyltransferase in, spectroph., 4D316

detection of fenthion in, by t.l.c., 4D137

detmn. of amoxapine in homogenate of, by g.l.c., 1D75

of As, Cd and Hg in, by n.a.a., 6D22

of bile acids in, by r.i.a., 3D194

of Cd in, by Zeeman a.a.s., 1D33

of Cd, Cu, Pb and Se in, differential pulse stripping voltamm., 4D23

of cerebrosides, free fatty acids and sphingomyelin in lipids of, by t.l.c., 3D171

of Cu in, by a.a.s., 1D27

spectroph., 4B37

of demethyldiazepam in, by h.p.l.c. or r.i.a., 3F23

of elements in, by proton activation, 6D19

emission spectrom., 2D35

comparison of sample-treatment procedures for, 6D15

matrix effects in, 1D20

of endothal in, by g.l.c. of anhydride, 4D138

of folate co-factors in, by h.p.l.c., 5D190

of glycerol formal in, by g.l.c. - chemical-ionisation m.s., 6D120

of isoniazid in, spectroph., 4E74

of lasalocid sodium in, by h.p.l.c., 1F23

by pyrolysis of TMS deriv. - g.c. - m.s., 1F24

of Pb in, by Zeeman a.a.s., 1D42

of loxapine in, by g.l.c. - m.s., 1D74

of Mn in, by a.a.s., 3D48

of 5-oxopyrrolidine-2-carboxylic acid in, by h.p.l.c. of 4-nitrophenacyl ester, 5D123

of phosphates in, with Bessman phosphate analyser, 6D12

of phylloquinone in, by h.p.l.c., 4D296

of potentially toxic metals in, 3D18

of pterins in, liquid chrom., 4D292

of quinolinic acid in, u.v. spectroph., 1D163

of Se in, by a.a.s., 6D41

of stilboestrol and its metabolite in, by r.i.a., 4D123

of L-erythro-tetrahydrobiopterin in, by h.p.l.c., 6D264

of total and microtubule-derived tubulin in, by colchicine-binding assay, 5D164

of uridine 5'-diphosphoglucuronic acid in, by conjugation with stilboestrol, 4D288

by h.p.l.c., 1D237

of vitamin U in, liquid chrom. - t.l.c. - g.l.c. of decomposition product, 4D305

Liver tissue—continued

identn. and detmn. of basic drugs in, by g.c., 3D54

isolation of phenothate from, comparison of methods for, 6D145

sepn. of protein kinases of, electroph., 1D261

Lobeline hydrochloride, identn. and detmn. in 'anti-smoking' chewing-gum, by h.p.l.c., 1E29**Lonazolac**, detmn. in blood serum, with its metabolite, by h.p.l.c., 1D78**Lonchocarpus cyanescens**, detmn. of enoxolone in roots of, by g.l.c. of TMS deriv., 1E45**Lorazepam**, sepn. from related compounds, by h.p.l.c., 1D71, 6E41**Loxapine**, detmn. in biol. fluids or biol. tissues, by g.l.c. - m.s., 1D74**Lubricating oils**, analysis of alkylphenol - Ca alkylsalicylate additive for, liquid chrom., 2C77

detection in estuarine and ocean water, fluorim., 4H79

detmn. of acidity or alkalinity of, by BSI potentiom. method, 2C70

of antioxidants and their reaction products in used synthetic turbine, by g.l.c. - h.p.l.c., 1C79

of asphaltenes in, BSI gravim. method for, 2C82

of Ca in, by a.a.s., after emulsion formation, 1C83

of Cl and V in, by n.a.a., 3C73

of elements in, by XRF, 2C76

emission spectrom., 2C75

Simplex method for non-linear optimisation in, 1C81

nebuliser techniques for, 1C82

of flash point of, BSI method for, 4C54

of metal deactivators in, by h.p.l.c., 4C52

of 'neutralisation number' of, by BSI colour indication titration method, 2C69

of PCB in used, comparison of g.c. methods for, 3C84

of rust inhibitor in turbine, i.r. spectroph., 1C80

of Ti in jet-engine, spectroph., 6C56

differential-scanning-calorim. and pyrolysis - g.c. study of thermal decomposition of zinc bis-(*OO*-dialkylphosphorodithioates) in, 6C57

fractionation of hydrocarbons in, by h.p.l.c., 4C53

identn. of additives in, by chemical-ionisation m.s., 3C83

sepn. and identn. of additives in, by h.p.l.c. - FT i.r. spectrom., 5J48

of PAH in, by g.c. and g.c. - m.s., 5C59

Luciferase, see under *Enzymes, specific***Lunar materials**, particle size analysis, 5A5C**Lung tissue**, analysis of arachidonic acid metabolites in perfusate of, by g.c. - chemical-ionisation m.s., 2D149

assay of arylsulphatases A and B in, fluorim., 2D296

of epoxide hydrolase in, fluorim., 2D301

of glutathione peroxidase, reductase (NAD(P)H) and transferase in, with Centrifichem 400 centrifugal analyser, 4D307

detmn. of loxapine in, by g.l.c. - m.s., 1D74

isolation of amosite asbestos and ferruginous bodies from, 5D23

system for electron microsc. - XRF studies of particulate matter in, 1D17

Lupanine, identn. and detmn. in lupin seeds, by g.c. and g.c. - m.s., 5G22**—, 13-hydroxy-**, identn. and detmn. in lupin seeds, by g.c. and g.c. - m.s., 5G22**Lupin**, analysis of alkaloids in seeds of, by g.c. and g.c. - m.s., 5G22**Lutetium**, concn., by Donnan dialysis, 1B25

detmn. in silicates, by n.a.a., interference from U in, 6B95

in yttrium oxide, emission spectrom., 2B62

sepn. from Er, Gd, Ho and Nd, magneto-paper electroph., 3B15

from Gd, Tb, Tm and Yb, by g.s.c. of chloride or chloride - aluminium complexes, 3B72

2,6-Lutidine, sepn. from related compounds, liquid chrom., 4C42**— 1-oxide**, sepn. from related compounds, liquid chrom., 4C42**Lutidinic acid**, see *Pyridine-2,4-dicarboxylic acid***Lycopene**, detmn. in blood serum, by h.p.l.c., 5D173

sepn. from carotenes, by t.l.c., 6G6

Lycorine, detmn. in *Amaryllidaceae* spp., fluorim. or u.v. spectroph., 6E19**Lymph**, detmn. of Cu, Fe and Zn in, by a.a.s., 4D24**Lymphocytes**, assay of enolase isoenzymes in, by immunoassay, 3D317

of epoxide hydrolase in, radiom., 6D284

Lypressin, detection, by h.p.l.c. - electrochem., 6D220**Lysergic acid methylpropylamide**, sepn. from lysergide, by g.l.c., 2E10**Lysergide**, detection and detmn. in illicit preparations, differential fluorimeter for, 4E11

sepn. from lysergic acid methylpropylamide, by g.l.c., 2E10

Lysine, detmn. in feeding-stuffs, by oxidative hydrolysis - automated ion-exchange chrom., 6G22

in sorghum, by dye-binding method, 4G4

—, *N,N,N'*-trimethyl-, detmn. in urine, by h.p.l.c., 3D216

Lysophosphatidylcholines, detmn. in presence of other lipids, by t.l.c. - reflectance densitom., 1D129

sepn. from phosphosphingomyelin, liquid chrom., 4D164

sepn. of isomeric, by h.p.l.c., 6D179

Lysozyme, see under *Enzymes, specific***M****MBC**, see *Carbendazim***MCPA**, detmn. in emulsifiable concentrates, by h.p.l.c., 5G27

- MCP**, see *Mecoprop*
- MDI**, see *Methane, bis(isocyanatophenyl)-*
- MDL 17,043**, see *Imidazol-2-one, 1,3-dihydro-4-methyl-5-[4-(methylthio)benzoyl]-2H-*
- MEN 935**, see *Benzimidazolin-2-one, 1[(3-[2-hydroxy-3-(1-naphthyl)oxy]propylamino)-3,3-dimethylpropyl]-hydrochloride*
- α_2 -Macroglobulin**, detmn., laser nephelom., 4D240
in amniotic fluid, by automated fixed-time kinetic - immunoturbidim. method, 4D247
in blood serum or cerebrospinal fluid, review, 3D256
- Macrozamin**, detmn. in cycad leaves, by h.p.l.c., 3D152
- Madhuca butyacea**, detection of seed fat of, in ghee, by t.l.c., 6F42
- Magnesite**, detmn. of B in, spectrogr., 3B145
of carbonate-C in, by acid digestion - two-end-point titrim., 1G12
- Magnesium**, concn. from water, by chelating ion exchange, 1H44
detection, by forward scattering in transverse magnetic field, 2J107
reaction for, 5B21
detmn., by a.a.s., 5B50, 5J111
effect of Cr in, 3B43
by flow-injection - a.a.s. method, 2J99
by stopped-flow injection - spectrogr. method, 1B51
emission spectrum., 4J86
effect of ethanol in, 6B13
fluorim., 1B50
potentiom., 1B52
in aluminium, spectrogr., 2B53
in aluminium or aluminium alloys, emission spectrum., 5B66
in aluminium alloys, by a.a.s., 3B60
in ash, spectrosc., 3B16
in barley seeds, by a.a.s., 1G3
in beer, collaborative study of titrim. method for, 2F52
in biol. materials, emission spectrum., standards for use in, 2D34
in biol. tissues, emission spectrum., 2D35
in blood serum, by flow-injection - a.a.s. method, 3D29
in blood-serum ultra-filtrate prepared with Amicon MPS-1 system, by a.a.s., 3D28
in brine, by a.e.s., 4B152
in coke, by XRF, sample preparation for, 6B189
in fertilisers, comparison of methods for, 5G14
emission spectrum., 2G5
in hair, by photon activation, 1D19
in hydrocolloids, potentiom., 4B52
in lime, by XRF, sample preparation for, 6B189
in manganese silicates, by a.a.s., 6B96
in minerals, ores or rocks, by XRF, 5B172
comparison of methods for, 1B191
in nickel alloys, by a.a.s., 5B157
in pharmaceutical capsules, emission spectrum., 1E14
in pharmaceutical preparations, by n.a.a., 6E5
in plants, by XRF, 1G19
in presence of Ca and other elements, by flow-injection - spectrogr. method, 5B49
in sediments, by n.a.a., 3H45
in serpentine, with electron micro-probe, 5B176
in silicates, by XRF, 2B91
in soil, emission spectrum., 2G2
in uranium or its oxide, by a.a.s., 5B88
in water, spectrogr., 5H58
in wine, flame spectrum., 4F59
in ZnS - Ag phosphors, by a.a.s., 4B214
of exchangeable, in sewage sludge, soil or related materials, by a.a.s., 4G7
of impurities in, spectrogr., 3B44
of Fe in, spectrogr., 6B146
isotopic analysis, by ICP m.s., 4J105
sepn. from Ba, Ca and Sr, by ion exchange, 3J42
from Ba and Sr, by h.p.l.c., 4B29
from Be, by t.l.c., 6B3
from Ca, by pptn. - ion-exchange technique, 3B47
from Cu and Zn, by selective pptn. of quinolin-8-ol complexes, 4B3
from other elements, ion chrom., 1B16
from U, by ion exchange, 1J61
ion-exchange chrom., 3B79
solvent extraction of, with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - triethylphosphine oxide, 1H45
- Magnesium, reagents for**, beryllon II, 5H58
- 4-(5-chloro-2-hydroxy-3-sulphophenylazo)-3-hydroxynaphthalene-2,7-disulphonic acid**, 5B49
- 1,5-dihydroxyanthraquinone**, 1B50
- magneson**, 5B21
- Magnesium alloys**, detmn. of Zn in, spectrogr., 2B38
—, **Mg - Al**, detmn. of Cu in, spectrogr., 1B35
- Magnesium carbonate**, identn. of basic, in magnesium oxide, i.r. spectrogr., 6B48
- Magnesium complexes**, with ATP, sepn. from ATP, by h.p.l.c., 5D187
with 1,5-bis-(5-chloro-2-hydroxy)-3-cyanoformazan, 6A20
- Magnesium compounds**, a.a.s. studies of volatilisation of, 5B50
- Magnesium hydroxide**, identn. in magnesium oxide, i.r. spectrogr., 6B48
- Magnesium oxide**, detmn. of elements in, spectrogr., comparison of carrier-distillation and buffer techniques for, 5B68
- Magnesium oxide**, determination—continued
of SO_4^{2-} in, potentiom., 6B49
identn. of basic magnesium carbonate and magnesium hydroxide in, i.r. spectrogr., 6B48
- Magnetic materials**, detmn. of oleic acid in powders, potentiom., 1C125
- Magnetite**, particle size analysis and specific surface measurement of powders of, comparison of methods for, 5A5C
- Maize**, analysis of phenols in suspensions of cells from, by h.p.l.c., 5G4
detection of deoxynivalenol in, by t.l.c. - h.p.l.c., 5G11
detmn. of aflatoxin B₁ in, by t.l.c. - densitom., 6F11
of D-amino-acids in meal of, by g.l.c. of *N*-pentafluoropropionyl deriv. of isopropyl esters, 1F7
of elements in flour of, by XRF, 1F4
of I in, losses during ashing in, 6F26
of Hg in, by isotope dilution, 6B57
of N, P and K in, by n.a.a., 5G2
of ^{35}S in small segments of plants of, by liquid scintillation counting, 5G3
of Ti in, differential pulse polarogr., 6G3
of trichothecenes in, by h.p.l.c., 3G6
of zearalenone in, by t.l.c., 5G9
- Maize oil**, detection of adulteration of, by g.c. of fatty acid methyl esters, 5F71
sepn. of triglycerides in, liquid chrom., 4F71
- Malaaxon**, detmn. in fruit or vegetables, by t.l.c., 4G21
- Malathion**, detmn., by g.c., comparison of methods for, 4G20
spectroph., 4G17
in fruit or vegetables, by t.l.c., 4G21
in insect-bait concentrates, by g.l.c., 5G36
of residues of, by g.l.c., isolation and clean-up methods for, 6G36
- Maleic acid**, detmn. in γ -butyrolactone, polarogr., 6C22
- Maleimide, diamino-, dioxime**, as analytical reagent, 2A11
- Malic acid**, detmn. in coffee, by isotachopheresis, 3F42
in grape must, by g.l.c. of TMS deriv., 2F57
in lactic acid-fermented vegetables, by h.p.l.c., 5F51
in sugar-refinery products, by g.l.c. of butyl ester, 4F21
in wine, by isotachopheresis, 6F68
by t.l.c., 3F51
- Malonaldehyde**, detmn. in biol. materials, by h.p.l.c., 3G22
- Malonamide, phenylethyl-**, detmn. in blood plasma, by h.p.l.c., 5D46
- Malonic acid**, detmn. in sugar-refinery products, by g.l.c. of butyl ester, 4F21
— **diethyl ester**, detmn. in water, by sorbent-tube pre-concn. - g.c., 2H79
- Malonic acid, methyl-**, detmn. in amniotic fluid or urine, by isotope dilution - g.l.c. of methyl ester - m.s., 4D152
- Malononitrile, 2-chlorobenzylidene-**, detmn. in chemical protection sprays, by g.c. - m.s., 1C127
- Malt**, analysis, applications of g.c. in, review, 6F57
review, 1F43
assay of β -glucanase in, by radial-diffusion method, 1F47
of pullulanase in extracts of, 1F48
detection of acetylformoin and C₄-aminoreductone in extract of, by g.l.c., as hydroxypyrazoles, 5F8
detmn. of colour of, collaborative study of methods for, 2F47
of nitrosamines in, by g.c. - thermal energy analysis, 2F49
by g.l.c., 1F49
collaborative study of g.l.c. methods for, 2F50
review, 5F62
of phenols in, spectrogr., 3F52
of xanthohumol in, by t.l.c. - spectrogr., 1F46
- Malt wort**, analysis, review, 1F43
detmn. of oxalate in, ion-exchange chrom. - spectrogr., 6F64
of sugars in, by h.p.l.c., 4F57
sepn., identn. and detmn. of non-volatile compounds in, by h.p.l.c., review, 6F57
- Maltene**, analysis, gel chrom. - n.m.r., 5C59
- Maltodextrins**, sepn., accelerated reversed-phase chrom., 1C26
by h.p.l.c. or gel chrom., 2D123
- Maltose**, detmn., by chemiluminescence method, 1C8
in beer or wort, by h.p.l.c., 4F57
in milk, by t.l.c. - densitom., 4F44
- Maltotriose**, detmn. in beer or wort, by h.p.l.c., 4F57
- Mammary tissue**, detmn. of calmodulin in, enzymic, 3D250
- Mandelic acid**, detmn. in blood plasma, by g.c. - m.s., comparison of internal standards for, 2D146
in urine, by h.p.l.c., 3D135, 6D132
sepn. of enantiomers of, by h.p.l.c., 4D209
—, **4-hydroxy-3-methoxy-**, detmn. in urine, by g.l.c. of TMS deriv., 6D165
by h.p.l.c., 6D164, 6D166
- Mandelic acid derivatives**, sepn. of enantiomeric, by h.p.l.c., 1C1
- Maneb**, detmn., amperom., 5G32
identn. of metabolites of, in faeces or urine, by t.l.c., with use of γ -irradiation technique, 6D140
- Manganese**, concn. from Ca(NO_3)₂ medium, by selective sorption, 2B16
from sea-water, on quinolin-8-ol-bonded polymer supports, 5H49
from water, by chelating ion exchange, 1H44
by co-pptn. - flotation, 4H38
detection, reaction for, 5B21

Manganese—continued

- detmn., by a.a.s., 5J111
 comparison of methods for, 3B11
 extraction method for, 6H68
 suppression of Cl^- interference in, 4B15
 with pre-concn. of cliquinol complex on microcryst. naphthalene, 1B151
 by catalytic - spectroph. method, 4B191
 by kinetic - fluorim. method, 1F5
 by n.a.s., with pre-concn. by co-pptn., 1B10
 by XRF, 6B18
 emission spectrum., 4J86, 6J94
 spectroph., 4B155, 4B192, 5B139
 stripping potentiom., automated, review, 4J141
 in air-borne dust, by a.a.s., 5H14
 digestion methods for, 4H8
 in aluminium, spectrogr., 2B53
 in aluminium or aluminium alloys, by a.a.s., 1B72
 emission spectrum., 5B66
 in aluminium alloys, by a.a.s., 3B60
 in Al - Cu - Fe - Mn alloys, spectrogr., 6B143
 in barley seeds, by a.a.s., 1G3
 in biol. materials, by XRF, 1F4
 emission spectrum., 2D33
 standards for use in, 2D34
 spectrogr., 5D12
 in biol. tissues, emission spectrum., 2D35
 comparison of sample-treatment procedures for, 6D15
 in blood, by automated Zeeman a.a.s., 6D18
 in brine, by a.e.s., 4B152
 in cereals or flour, by XRF, 6F25
 in coal or fuel oil, emission spectrum., with pre-concn. on poly-(dithiocarbamate) resin, 5B179
 in copper alloys, by XRF, 6B38
 emission spectrum., arc excitation assource of error in, 4B42
 in environmental materials, by h.p.l.c. of chelate complexes, 2H43
 in fertilisers, emission spectrum., 2G5
 in fly ash reference material, 5A18
 in fresh-water particulate matter, by a.a.s., 5H54
 in hair, by photon activation, 1D19
 in halide matrices, by a.a.s., 5B20
 in human milk, by n.a.s., 6D21
 in iron alloys, by XRF, 4B187
 in liquid samples, spectrogr., 2J108
 in liver tissue, by a.a.s., 3D18, 3D48
 in magnesium, spectrogr., 3B44
 in manganese silicates, by a.a.s., 6B96
 in marine samples, review, 4H39
 in minerals, ores or rocks, by a.e.s., 1B191
 by XRF, 5B172
 in nickel alloys, emission spectrum., 2B157
 in org. soln., emission spectrum., 3C56
 in petroleum or petroleum products, by XRF, 2C76
 in plants, by a.a.s., 6D17
 by XRF, 6G1
 certified reference materials for, 6D14
 in presence of Cd, Co, Cu and Ni, ion chrom., with pre-concn. by Donnan dialysis, 6J44
 of other elements, by n.a.s., 5B8
 by t.l.c. of anthryl glyoxal 4-diethylaminoanil complexes, 1B20
 in quartz, by n.a.s., 6B92
 in sea-water, by a.a.s., extraction method for, 2H45
 in sediments, by acid extraction - a.a.s., 4H41
 by a.a.s., 1H52
 by n.a.s., 3H45
 in serpentine, with electron micro-probe, 5B176
 in sewage sludge, by a.a.s., sample pre-treatment for, 4H89
 in sherry-type wines, by a.a.s., wet-ashing method for, 5F66
 in silicates, by a.a.s. or a.e.s., 2B173
 by lithium borate fusion - a.a.s., 4B10
 by XRF, 2B91
 in soil, emission spectrum., 2G2
 extraction method for, 1G9
 in steel, Auger-electron spectrum., 3B140
 giant-pulse laser spectrochem., 1B160
 spectrogr., in flowing gas atmosphere, 3B137, 3B138, 3B139
 spectroph., 1B162
 in steel or other alloys, amperom., 2B137
 in uranium or its oxide, by a.a.s., 5B88
 in urine, emission spectrum., 2D36
 in water, by a.a.s., using stabilised-temp. platform furnace, 1H47
 with pre-concn. by co-pptn., 2H44
 by PIXE, 1H46
 by XRF, with pre-concn. by pptn. of diethyldithiocarbamate, 5H53
 in wine, by a.a.s., 4F58
 in Zircaloy, emission spectrum., 4B114
 of different oxidation states of, in ammonium dihydrogen phosphate monocrystals, potentiom., 1B120
 extraction-chrom. study of, 6B21
 ion-exchange studies of, 4B6, 6B14

Manganese—continued

- sepn. from Cd, by ion exchange, 3J42
 from Ga, ion-exchange chrom., 2B56
 from Mo, liquid chrom., 2B16
 from other elements, by t.l.c., 3B13
 ion chrom., 1B16
 ion-exchange chrom., 5B16, 6B15
 of Mn^{II} and Mn^{III} , magneto-paper electroph., 3B15
 solvent extraction of, with decanoic acid in CHCl_3 , 5B23
 with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - trioctylphosphine oxide, 1H45
Manganese, reagents for, 2,2'-bipyridyl - nitrophenylazocatechols, 5B139
 5'-chloro-2',4'-dihydroxypropiophenone oxime, 4B192
 1,10-phenanthroline - tetraiodofluorescein, 4B155
 1-(2-pyridylazo)-2-naphthol, 1B162
 NaBiO_3 , 5B21
Manganese alloys, detmn. of Ni in, polarogr., 5B18
 —, Mn - Al - Cu - Fe, detmn. of Mn in, spectrogr., 6B143
Manganese complex, with ATP, sepn. from ATP, by h.p.l.c., 5D187
Manganese ores, detmn. of ^{90}Be -to- ^{10}Be ratio in ferromanganese deposits, with tandem accelerators, 2H51
 of component minerals in, selective dissolution method for, 4B156
Manganese silicates, detmn. of Al, Ca, Mg, Mn and Si in, by a.a.s., 6B96
Manganese zinc ferrite, analysis of single crystals of, by Rutherford back-scattering spectrometry, 1J176
Manganite, detmn. in ores, titrim., 1B152
 sepn. from psilomelane and pyrolusite, by selective dissolution, 4B156
Mannitol, detmn., by chemiluminescence method, 1C8
 in foods, by h.p.l.c. of benzoyl deriv., 5F7
 in soln. from xylitol production, by g.l.c. of acetate, 5C14
 identn. in olives, paper chrom., 4F52
Mannogalactan, detmn. of As in, by a.a.s., 3C102
Mannose, detection in confectionery products, by t.l.c., as indication of adulteration, 4F25
 detmn. in cereal-fibre hydrolysates, by h.p.l.c., 3G2, 6F4
 in plant-cell walls and mucilages, by h.p.l.c., 3D145
 in presence of other monosaccharides, by methanolysis - h.p.l.c., 4D143
 in soln. from xylitol production, by g.l.c. of corresponding aldono-nitrile acetate, 5C14
 sepn. from other aldoses, by h.p.l.c. of *N*-(*p*-methoxyphenyl)glycosylamines, 2C24
Maple syrup, applications of C-isotope analysis in quality control of, review, 2F2
Maprotiline, detection, reagents for, 4E44
 detmn. in blood, by g.l.c. of heptafluorobutyl deriv., 1D76
 in blood plasma, by h.p.l.c., 6D95
 with its metabolites, by h.p.l.c., 2D86
Margarine, detection and detmn. in ghee, by g.l.c. analysis of unsaponifiable matter, 1F31
Marionberries, detection and identn. of carbaryl in, by g.c. - chemical ionisation m.s., 2G17
Marmalade, detmn. of benzoic acid and sorbic acid in, by g.l.c., 5F15
 of thiabendazole in, by h.p.l.c., 3F17
Mass spectrometry, algorithm for preliminary identn. of lines in, 4J102
 analysis of complex mixtures by, using low-pressure collision-induced dissociation technique, 1J168
 of gas mixtures by, 2J137
 elimination of interference in, 2J140
 using time-of-flight technique, 5J7
 with concn. of impurities on solid surface, 6J10
 of small gas vol. by, 2J138
 of surfaces by, review, 1J150
 apparatus for, automated transportable, for isotopic analyses at nuclear plants, 3J94
 'EMAL-2' laser-ion-source, 1J153
 for fast-atom-bombardment studies of polar compounds, 3C26
 for H-isotope analyses, 2J141
 for stable-C-isotope analysis at ng level, 4J106
 high-resolution high-sensitivity, review, 6J114
 quadrupole, operating with no d.c. voltage component of rods, 1J162
 triple-quadrupole, with atmospheric-pressure chemical-ionisation source, 1J164
 applications of, in combination with other techniques, review, 2J135
 applications of temp.-programmed fractionation inlet system for, 3J100
 of two-photon ionisation in, 3J110
 ^{252}Cf -fission-fragment-induced ionisation for, 3J113
 chemical-ionisation, dimethyl ether as reagent gas for functional-group analysis by, 2C7
 H - NO and CH_4 - NO mixtures as reagent gases in, 5J138
 N_2O as reagent gas for positive-ion, 4J110
 selective use of Cl^- in, 3C83
 standard compounds for evaluating instrument performance in, 4J111
 system for direct liquid introduction of h.p.l.c. effluent into quadrupole instrument for, 1J167
 computation of quality index in, 1J175
 computer control of sample evaporation and selected-ion monitoring in, 3A28
 computer processing of data in, 2J151, 2J152
 computer system for data processing in, 1J19

Mass spectrometry—continued

- computerised identn. of spectra in, 3J99
 consecutive collision-induced dissociations in FT, 1J174
 digital linearisation system for provision of accurate mass scale in, 1J152
 direct-electron-impact technique of sample introduction into ionisation chamber in, 1J156
 eight-peak index of spectra, 4J119B
 emitter for field ionisation and field electron emission, 3J114
 exact mass measurement in absence of calibrant by FT, 4J104
 fast-atom-bombardment, analysis of surfaces by, review, 3J118
 'Capillariton' fast-atom source for use in, 4J112
 compared with field-desorption technique, 3J115
 comparison of ionisation gases in, 3J120
 conversion of mass spectrometers for use in, 1J160
 evaluation of profiles obtained by, using pattern-recognition techniques, 6J118
 FAB fast-atom-beam source for use in, 3J116
 ion gun for, 3D12
 matrix effects in, 3J119
 performance of Ion Tech model B-11NF fast-atom source in, 4J113
 reviews, 1J158, 1J159
 role of solvent in liquid-phase ionisation methods in, review, 5J139
 using commercial field ionisation - field desorption source, 3J117
 field-desorption, evaluation of profiles obtained by, using pattern-recognition techniques, 6J118
 laser-photon-induced, combined with time-of-flight measurement and atom-probe method, review, 3J111
 high-magnetic-field FT ion-cyclotron-resonance, apparatus for, 3J122
 ICP technique for, trace-metal isotopic analysis of μl soln. by, 4J105
 inorg., for trace analysis, 4A1C
 interactive fragment display program for spectral interpretation in, 2A30
 interface for coupling VG Micromass ZAB 2F instrument to X - Y recorder, 1J169
 ion formation from org. solids in, report of conference on, 5A3
 ion generation by dust-particle-induced desorption in, 3J108
 ion sources for, 3J109
 allowing rapid throughput of samples, 3J105
 d.c. glow-discharge, for inorg. analysis, 3J104
 electrohydrodynamic, with reservoir and with emitter tip heated by electron bombardment, 3J103
 filaments for low-temp., 3J101, 6J115
 for thermal-emission, 2J136
 surface-ionisation, 3J102
 ion-beam-induced effects in analysis of thin films by, 3J106
 isotope-dilution, use of linear and non-linear models in bracketing procedures in, 4J107
 isotopic distributions in spectra of large molecules, 2J143
 - m.s., addition of small electric sector to system for, 3J125
 applications and advantages of, review, 1J171
 by time-resolved magnetic-dispersion m.s., 3J124
 detmn. of mol. structures by, 1J172
 for detection of polar and labile molecules, using liquid ion evaporation, 1J173
 instrumentation and applications for, and acronyms used in, review, 4J115
 ion source for, 2J150
 mass resolution in, review, 4J116
 scanning techniques for experiments in double focusing instruments by, review, 5J141
 use of natural isotopic-abundance ratios in identn. of compounds by, 4J117
 multi-photon ionisation in FT, 5J140
 multiple-collector techniques in isotope-ratio detmn. by, 2J142
 negative-ion, by low-pressure chemical ionisation, structural analysis by, 1J166
 modification of Finnigan 3300 quadrupole instrument for, 1J165
 negative-ion production by surface ionisation in, reviews, 2J147, 2J148, 2J149
 of complex mixtures using photographic plate as detector, review, 3J96
 of org. compounds, review, 4C6
 optimisation of search algorithms for spectral library, 6A28
 plasma-source, 2J144, 2J145
 elemental analysis by, 2J146
 pulsed-valve addition of collision and reagent gases in FT, 4J109
 pyrolysis -, 6A3C
 report of conference on, 6A7
 resonance-ionisation, atomic ion formation and measurement with, 4J114
 review of new developments in, 2J134
 review of techniques of or involving desorption ionisation, 1J170
 sample holders for use in, 1J151
 search system for spectra from combined i.r. spectrometry and, 6A27
 secondary-ion, apparatus for, 3J107
 aspects of quantitative, review, 1J161
 carbon as sample substrate in, 1H36
 coupled with Auger-electron spectrometry, optical *in situ* sputter-rate measurements during ion sputtering in, 1J149
 coupled with ion-scattering spectrometry, spatial enhancement and restoration of chemical images from, 4J108

Mass spectrometry, secondary-ion—continued

- depth profiling by, review, 3J95
 detection of sputtered neutral particles by, 3B5
 effect of varying parameters in particle-induced desorption, 3J112
 matrix effects in, 6J117
 report of conference on, 1A1
 sample preparation for surface analysis by, 5J136
 source-mounted ion gun for studies of liquid matrices by, 6J116
 surface analysis of coated hard metals by, 3B4
 trends and developments in, for micro-analysis, 4A1C
 secondary-neutral, compared with other techniques, 3J93
 semi-automated mass calibration of photographically recorded spectra in, 3J97
 spark-source, analysis of non-conductive powders by, compared with d.c. arc a.e.s. analysis, 5J120
 developments and trends in, review, 4A1C
 evaluation of photographically recorded spectra in, 4J103
 exploitation of photo-plates in, by digital image processing, 3J98
 material consumption in analysis of metals by, 1J157
 spectral interpretation in analysis of gases by, 2J139
 standards for, 1A33B
 system for, incorporating ion-cyclotron-resonance spectrometer, 6J119
 use of stable-isotope-labelled compounds in novel quadrupole techniques for, 6A2C
 voltage marker for X-scale calibration of mass-analysed ion-kinetic-energy spectra, 3J121
Meat, see also *Bacon; Beef; Poultry tissues; Pork*
 analysis, comparison of sample-preparation methods for, 5F33
 bibliography on microsc. studies of, 6F28
 detection and detmn. of chloramphenicol in, by g.c. of TMS deriv. - m.s. or by h.p.l.c., 1F25
 detmn. of anserine, balenine and carnosine in, by h.p.l.c., 5F34
 of chloramphenicol in, by h.p.l.c., 6F13
 of chloramphenicol, furazolidone and sulphonamides in, by h.p.l.c., 5F42
 of haem pigments in, spectroph., 1F22
 of inosinic acid in, by h.p.l.c., 5F35
 of 1 in, by catalytic - spectroph. method, 5F5
 of isoascorbate in cured, by h.p.l.c., 4F35
 of nitrosamines in cured, review, 5F62
 of S-nitrosothiol in cured, spectroph., 6F30
 of non-haem and total Fe in, spectroph., 1F19
 of purine deriv. in, enzymic - u.v. spectroph., with centrifugal analyser, 1F6
 of thiamine in, by g.l.c., 6F9
 of total extractable protein in, spectroph., 6F29
 differentiation of fresh from frozen-and-thawed, by spectroph. assay of 3-hydroxyacyl-CoA dehydrogenase content, 3F21
 identn. and detmn. of organochlorine pesticides and PCB in, liquid chrom. - g.c., 2F21
 of sulphonamides in, by h.p.l.c. and high-performance t.l.c., 2D95
Meat products, detection of collagen in comminuted, histochem., 5F37
 detection and detmn. of blood plasma in, immunoturbidim., 4F33
 detmn. of aliphatic secondary amines in, by h.p.l.c., 1F20
 of D-amino-acids in hamburger, by g.l.c. of N-pentafluoropropionyl deriv. of isopropyl esters, 1F7
 of biogenic amines in, ion-exchange chrom., 4F9
 of soya protein in meat - soya blends, by enzymic - spectroph. detmn. of galactose plus arabinose, 2F20
 of starch in, enzymic, 4F34
 —, **sausages**, detmn. of SO_2 in, by steam-distillation - iodim., 2F13
Meconic acid, detection in opium, colorim., 5E11
Mecoprop, detmn. in biol. materials, by h.p.l.c., 6D141
Medinoterb, identn. and detmn. in flour, fruit, hops, sugar-beet or vegetables, gel chrom. - g.l.c. of methyl ethers, 3G40
Melamine, detection and h.p.l.c. detmn. in potato proteins, 3G25
 detmn. in chipboard, gravim. or u.v. spectroph., 1C99
Melatonin, see *Tryptamine, N-acetyl-5-methoxy-*
Melezitose, fast-atom-bombardment study of, 3C26
Melipramine, see *Imipramine*
Mellitic trianhydride, detmn. in presence of parent acid, spectroph., 4C32
Melperone, detmn. in blood plasma, with its metabolite, by g.l.c. - m.s., 6D90
Menadiol dibutyrate, detmn., spectroph., 4E4
Menadione, see *Menaphthone*
Menaphthone, detmn. in feeding-stuffs, by h.p.l.c., 3G26
 in presence of its $\text{Na}_2\text{S}_2\text{O}_4$ adduct, u.v. spectroph., 3E26
Menaquinones, sepn., by h.p.l.c., 2D276
 of bacterial, by h.p.l.c., 1D246
Menthane derivatives, g.l.c. study of, 5C49
Menthofuran, detmn. in peppermint oil, by g.c., 2F6
Menthol, detmn. in peppermint oil, by g.c., 2F6
 sepn. of enantiomers of, by g.c., derivatisation reagents for, 4C4
Menthone, detmn. in peppermint oil, by g.c., 2F6
Menthyl acetate, detmn. in peppermint oil, by g.c., 2F6
Meprobamate, detmn., polarogr., review, 5E30
 identn. in urine, by t.l.c., 5D55
Mepyramine maleate, sepn. from *NN*-dimethyl-*N'*-(2-pyridyl)ethylene-diamine deriv. and methapyrilene, by h.p.l.c., 6J31
Mercaptamine, detection, fluorogenic reagent for, 2C10

Mercaptans, see **Thiols****Mercapto-groups**, detmn. in serum albumin, spectroph., 6D236**Mercaptopurine**, detmn. in blood serum, enzymic - fluorim., 5D75
of metabolite of, in erythrocytes, fluorim., 1D95**Mercury**, complexing agent for, 3A13

concn., by adsorption on carbonaceous materials from aq. soln., 1B66

detection, colour reaction for, 3A12

pptn. reactions for, 2A11, 6B11

reaction for, 5B21

in water, automated, review, 6H41

detmn., amperom., 1B65

by a.a.s., apparatus for, 3B55

automated system for, 2H55

comparison of methods for, 3B11

interference by metals adsorbed on polypropene mixing chamber in, 6B56

by automated Magos method, 1D36

by flow-injection - amperom. method, 6J171

by isotope dilution, 6B57

by n.a.s., 1B9

by sequential two-photon laser-induced fluorescence, 1B63

complexom., with differential electrolytic potentiom. detection of end-point, 5B15

dual-wavelength photom., 1B24

emission spectrom., 1J129

gravim., 1B62

photom., 2B19

potentiom., 3B57, 6B11

HgCl₂-selective electrode for, 6J141with I⁻-selective electrode, 5B59with Hg²⁺-selective electrode, 5B60

review, 2B45

spectroph., comparison of methods for, 2B46

stripping potentiom., 3J151

automated, review, 4J141

in air, by a.a.s., field sampler for, 2H13

by a.f.s., 6H10

with stabilised d.c. arc, 3H16

in biol. materials, emission spectrom., 2D33

in biol. tissues, by n.a.s., 6D22

in blood or blood serum, by a.a.s., 2D48

in cereals, modified Schoniger system for, 4G1

in environmental materials, by h.p.l.c. of chelate complexes, 2H43

in fatty acid still-bottom residues, by a.e.s., 2C34

in fish tissues, by a.a.s., 5F40

in fly ash reference material, 5A18

in fruit, spectroph., 3F36

in hair, by photon activation, 1D19

in intermediates and wastes from lead - zinc production, by a.a.s., 5B108

in iodomercuric sulphides, spectroph., 6B58

in liver tissue, by a.a.s., 3D18

in marine samples, review, 4H39

in milk powder, by a.a.s., 6F36

in pharmaceutical raw materials and active compounds, voltamm., 3E1

in plants, certified reference materials for, 6D14

in presence of As, by reduction - aeration a.a.s., 4B60

of other elements, by n.a.s., 5B8

in sea-water, by a.a.s., with MAS-50A Mercury Analyser, 5H61

in sediments, by acid extraction - a.a.s., 4H41

in soil, spectroph., 3F36

in sulphur compounds, potentiom., 2B47

in sweat, by a.a.s., 3D38

in Ti - Hg alloy, complexom., 2B102

in urine, by a.a.s., 3D37

emission spectrom., 2D36

in vegetables, spectroph., 3F36

in water, a.e.s. study of exchange processes significant in, 2H53

by a.a.s., 2H54

continuous-flow system for, 4H35

of Cd, Cu and Pb in, voltamm., 5B62

of different chemical forms of, in urine, by a.a.s., 1D35

of distribution of, in cadmium mercury telluride, by XRF, 5B190

of impurities in, spectrochem., 5B61

of inorg. and org. in sea animals, by a.a.s. - g.l.c., 4F36

of Hg⁰ and Hg²⁺, using double Magos detmn., 1D37

of Hg, amperom. or potentiom., 1B64

losses of, from aq. soln., 'bubbling effect' in, 6B55

monitoring of air-borne, by collection on re-usable sampling tubes - a.a.s., 1H15

sepn. from Ca, Co, Pb and Ni, or from Cu, with xanthated Sephadex, 1B22

from other elements, by ion exchange, 5J66

by t.l.c., 1B23

from U, ion-exchange chrom., 3B79

solvent extraction of, as salicylate, with mesityl oxide, 6B51

with aq. systems from organometallic - halide extracts, 1B14

with decanoic acid in CHCl₃, 5B23with heptan-4-one oxime in CHCl₃, 3B56**Mercury**, solvent extraction of—*continued*

with quinoline-8-carbodithioic acid, 3A14

with tetrachlorodithionates, 1B17

—, **diethyl-**, concn. from air, comparison of adsorbents for, 3H23—, **dimethyl-**, detmn. of impurities in, by g.l.c. or m.s., 5C25—, **methyl-**, concn., by adsorption on carbonaceous materials from aq. soln., 1B66

detmn. in sea animals, by g.l.c., 4F36

—, **iodide**, detmn. in dimethylmercury, by g.l.c. or m.s., 5C25—, **phenyl-**, detmn., spectroph., 3C58, 6H73—, **acetate**, detmn. in air, by a.a.s. and g.c., 2A2C**Mercury reagents for**, β-(3-chloroanilino)cinnamic acid 3-chloroanilide, 1B62

Cul, 5B21

diaminomaleimide dioxime, 2A11

5-(p-dimethylaminobenzylidene)-2-thiohydantoin, 2B19

dithione, 3F36, 6B58

glycinecresol red - hexamine, 2B46

hexamine - methylthymol blue, 2B46

K₂Hgl₄, 6B11

4-(1,2,4-triazol-3-ylazo)thymol, 3A12

Mercury alloys, **Hg - Ti**, detmn. of Hg and Ti in, complexom., 2B102**Mercury complex**, with 4-benzoyl-3-methyl-1-phenylpyrazoline-5-thione, 1A9**Mercury compounds**, detmn., by continuous-flow reduction - liquid chrom. - a.a.s., 3C41

of alkyl in sea-water, by g.c. - emission spectrom., 3H89

Mercury(II) iodide, m.s. and scanning-electron-microsc. study of single crystals of α-, 5B189**Mercury iodide sulphides**, detmn. of Hg and S in, spectroph., 6B58**Mercury ores**, micro-structures of Entredicho, 1A1C**Mercury(II) sulphide**, detmn. of Hg in, potentiom., 2B47**Mesitylene**, detmn. in air or aq. soln., by secondary-ion m.s., 1H36**Mesoridazine besylate**, detmn., titrim., 6E38**Mestranol**, detmn. of 17-oxosteroid impurities in, spectropolarim., 1E40**Metacin**, sepn. from tropacine, by t.l.c., 5E38**Metadrenaline**, see **Adrenaline**, 3-O-methyl-**Metal complexes**, analysis of ammine or nitrosyl, by pyrolysis - g.c., reference materials for, 2A12

analytical electrophoresis of, review, 4A20

detection, electrochem. flow cell for, 5C26

d.t.a. - m.s. system for studies of, 3J153

reversed-phase t.l.c. study of, 2C43

with crown ethers, fast-atom-bombardment m.s. study of, 6A7C

with diethyldithiocarbamate, analytical use of exchange extraction of, review, 1B4

Metalddehyde, detmn. in air, by g.c., 4H23**Metalloporphyryns**, analysis, by g.l.c. or g.l.c. - m.s., 1C68**Metallothioneins**, detection and detmn. in shellfish, polarogr., with use of PAR-303 electrode, 1D195— **I**, detmn., by r.i.a., 6D232**Metallurgical analysis**, application of optical emission source developments in, 1B161**Metallurgy**, certification of method of analysis of products of secondary non-ferrous, 5B1

study methods used in, review, 2B2

Metals, analysis, 2B181B

report of conference on micro-probe methods in, 1A1C

of surfaces of coated hard, by secondary-ion m.s., 3B4

application of variance analysis for study of homogeneity of, 4B1

characterisation of surfaces of, glow-discharge emission spectrom., 3B3

detmn., applications of extraction methods in, review, 5B4

by e.s.r., radical-containing reagents for, review, 5B7

by g.c., review, 1B7

gravim., solubility diagrams and their use in, 4B3

of C in, by combustion - non-aq. photom. titration, 2B86

of impurities in, by n.a.s., 5B8

of S in, by isotope dilution - m.s., 4B134

electron-microsc. studies of, review, 1B8

identn. of scrap, review, 1B1

paper-chrom. studies of, review, 1B5

solvent extraction of, by chelating ligands, review, 1B3

sources of contamination in detmn. of traces of, 1H1

spray reagent for paper-chrom. studies of, 4B5

t.l.c. studies of, 1B6, 6B3

use of surface-analytical techniques to examine problems of corrosion of, 3A1C

Metamizole, see **Dipyrone****Metanephine**, see **Adrenaline**, 3-O-methyl-**Meteorites**, analysis, by micro-probe methods, 1A1Cdetmn. of ¹⁰Be distribution in, by high-energy m.s., 1B49

of Ti isotopes in, by electro-deposition - surface-ionisation m.s., 4B69

Methacrylic acid, sepn. from related compounds, by g.l.c., 2C118— **esters**, sepn. from related compounds and from each other, by g.l.c., 2C118—, **methyl**, detmn. in air from polystyrene-production plant, by g.l.c., 3H37—, **triethylene glycol**, detmn. in water, a.c. polarogr., 2C119**Methacrylic acid derivatives**, identn. in dental materials, by g.c. - m.s., 6C83

- Methadone**, detmn. in pharmaceutical preparations, by t.l.c. - g.l.c. of TMS deriv., and in urine, by t.l.c., 4D53
in urine, inactivation of lysozyme in EMIT-dau method for, 1D51
- Methane**, detmn., amperom., microbial sensor for, 6J13
in air, semiconducting sensor for, 3J8
in argon, coulom., 4B23
in dimethylmercury, by g.l.c. or m.s., 5C25
in high-purity gases for semiconductor fabrication, by g.c. - m.s., 2J75
in natural gas, by m.s., 2C60
—, **bis(isocyanatophenyl)-**, detmn. in air, by g.c. of heptafluorobutyl deriv., 6H28
—, **bromo-**, detmn. of H₂O in, spectroph., 3C4
—, **chloro-**, detmn. of impurities in, BSI g.l.c. method for, 5C11
—, **chlorotrifluoro-**, detmn. in tetrafluoromethane for semiconductor fabrication, by g.c. - m.s., 2J75
—, **4,4'-diaminodiphenyl-**, see *Aniline*, 4,4'-methylenebis(-)
—, **dichloro-**, detmn. in chloromethane, by BSI g.l.c. method, 5C11
of trace elements in, emission spectrom., 3J82
identn. and detmn. in tin tetrachloride, by g.l.c. - m.s., 3B95
—, **dichlorodifluoro-**, detmn. in air, by g.l.c., 4H20
—, **ditolyl-**, detmn. of acid value of, potentiom., 5C33
—, **iodo-**, analysis of impurities in, by g.c., 6C13
detmn. in dimethylmercury, by g.l.c. or m.s., 5C25
of H₂O in, spectroph., 3C4
—, **nitro-**, analysis of soln. of, by g.c., 6C24
—, **tetrafluoro-**, detmn. of impurities in high-purity samples for semiconductor fabrication, by g.c. - m.s., 2J75
—, **trichlorofluoro-**, detmn. in air, by g.l.c., 4H20
—, **trifluoro-**, detmn. in tetrafluoromethane for semiconductor fabrication, by g.c. - m.s., 2J75
—, **tris(hydroxymethyl)amino-**, as standard substance for standardisation of H₂SO₄ soln., 1B115
- Methane derivatives**, **chlorofluoro-**, see *Freons*
—, **trihalo-**, detmn. in water, by g.c., 1H73
variations in concn. of, in water, 2A2C
- Methanearsonic acid**, detmn. in aq. samples, by g.c., as 2,3-dimercaptopropanol complex, 1H66
in sediments or water, ion-exchange chrom. - a.a.s., 3H62
- Methanesulphonamide**, **1-chloro-N-(2-phenoxyphenyl)-**, **chloro-derivatives**, detmn. on wool textiles or in textile liquors, by h.p.l.c., 3C103
- Methanethiol**, detmn. in atmospheric emissions from cellulose or paper manufacture, by g.c., 2H12
in urine, by head-space g.l.c., 6D3
- Methanol**, analysis of products of conversion to alkenes of, by g.c., 3C19
detmn., relative to ethanol and propan-2-ol, 2C92
in chloromethane, by BSI g.l.c. method, 5C11
in dimethyl ether, by g.c., 6C17
in gas mixtures, preparation of gas mixtures for calibration in, 4J13
in gasoline, by g.c., 2C66
in gasoline blends, by g.c., 1C78
in whisky, spectroph., 4F63
of ethanol in, by g.c., 1J85
of H₂O in, by sonoluminescence method, 3C5
- Methapyrilene**, sepn. from *NN*-dimethyl-*N'*-(2-pyridyl)ethylenediamine deriv. and mepyramine maleate, by h.p.l.c., 6J31
- Methaqualone**, detection in blood plasma, blood serum or urine, by enzyme immunoassay, 4D79
detmn. in saliva, by g.l.c., 3D56
of metabolites of, in urine, u.v. spectroph., 6D70
- Methdilazine**, detmn. in pharmaceutical preparations, spectroph., 4E66
- Methenamine**, see *Hexamine*
- Methimazole**, detmn., potentiom., 6E7
and detmn. of its metal complexes, titrim., 6D215
in feeding-stuffs, by t.l.c. - spectroph., 6G21
- Methionine**, detection of CN⁻ in, colour reaction for, and of its sulphoxide and sulphone in, by t.l.c., 6E34
detmn., enzyme electrode for, 6J157
titrim., 6C27
with bromamine N, 4A16
in proteins, by g.c., as thiocyanatomethane, 1G21
in veterinary formulations, by t.l.c. - spectroph., 2E34
of D-, in foods, by g.l.c. of *N*-pentafluoropropionyl deriv. of isopropyl ester, 1F7
of metabolite of D-, in urine, by g.l.c., 3D161
h.p.l.c. study of reaction with cisplatin of, 4D280
identn., i.r. spectrosc., 2E4
sepn. from amino-acid mixtures, by t.l.c., 2D212
—, **sulphone**, detection in methionine, by t.l.c., 6E34
—, **sulphoxide**, detmn. in methionine, by t.l.c., 6E34
in proteins, by g.c., as thiocyanatomethane, 1G21
- Methionine, *N*-acetyl-**, detmn., enzyme electrode for, 6J157
- Methionine adenosyltransferase**, see under *Enzymes, specific*
- Methomyl**, detmn. in rice, by g.c., 6G34
in soil or water, by h.p.l.c., 5G38
of residues of, by g.l.c., isolation and clean-up methods for, 6G36
- Methotrexate**, detmn., polarogr., 4E78
in blood serum, with its 7-hydroxy-deriv., by h.p.l.c., 1D96
in blood serum or urine, with its metabolites, by h.p.l.c., 6D122
- Methotrexate—continued**
sepn. of analogues of, from parent compound and from each other, and from 4-amino-4-deoxy-*N*¹⁰-methylptericoic acid, by h.p.l.c., 3E69
- Methotrimeprazine**, detmn., titrim., 6E38
—, **maleate**, detmn. of 3-methoxydiphenylamine in, by m.s., 2E45
- Methoxsalen**, detmn. in pharmaceutical preparations, by h.p.l.c., 5E43
- Methoxy-groups**, detmn., by n.m.r. or by Zeisel method, 6C8
in polyuronides, comparison of methods for, 6F22
- Methylclothiazide**, detmn. in presence of related compounds, by t.l.c. - spectroph., 2E63
- Methylamine**, detection, colour reaction for, 6C23
detmn. in blood plasma or urine, by h.p.l.c. of trinitrobenzenesulphonyl deriv., 5D76
in presence of other primary amines, by h.p.l.c. of phthalaldehyde deriv., 5C21
sepn. from dimethylamine, liquid chrom., 6J48
- Methylamphetamine**, detmn. in biol. tissues, by g.l.c. of trifluoroacetyl deriv. - chemical-ionisation m.s., 6D101
in blood plasma or urine, by h.p.l.c., 4D106
of D-, in urine, by r.i.a., 1D77
- Methyldopa**, detmn. in pharmaceutical preparations, spectroph., 3E18
of enantiomeric purity of, by h.p.l.c., 3E17
- α -Methylfentanyl**, detmn. of structure of, by tandem m.s., 1J172
- Methylphenidate**, solvent extraction of, with CHCl₃, artefact formation in, 4D49
- N*-Methyltransferase**, see under *Enzymes, specific*
- Metmyoglobin**, detmn. in meat, spectroph., 1F22
- Metoclopramide hydrochloride**, detmn. in pharmaceutical preparations, spectroph., 4E80
- Metoprolol**, detmn. in blood plasma, by g.l.c. after reaction with phosgene, 4D109
by g.l.c. of heptafluorobutyl deriv., 3D101
with its metabolite, by automated h.p.l.c., 1D80
in blood plasma or urine, with its metabolite, by h.p.l.c., 3D102
—, **tartrate**, detmn. of contaminants in preparations of, by high-performance t.l.c. - densitom., 2E52
- Metribuzin**, detmn. in presence of its metabolites, by h.p.l.c., 4G15
- Metronidazole**, detmn., colorim., 4E3
in blood plasma, differential pulse polarogr., 1D92
in pharmaceutical preparations, by t.l.c., 3E24
- Microbeam analysis**, report of conference on, 1A1
- β_2 -Microglobulin**, isolation from urine, by isoelectric focusing, 3D255
- Micro-organisms**, analysis of amines produced by bacteria, by g.c., 6D195
of fatty acids of bacteria, by g.l.c. of methyl esters, derivatisation method for, 1D120
of neutral and amino-sugars in bacterial cell walls, by g.c. of corresponding alditol acetates, 2D121
of short-chain acids from anaerobic bacteria, by h.p.l.c., 3D159
assay of δ -aminolaevulinic synthase in bacteria, spectroph., 5D208
of carbamate kinase in bacteria, spectroph., 6D273
of penicillin acylase in bacterial cell preparations, fluorim., 6D290
detection of constituents of, in sputum, by g.l.c. of ethyl esters - m.s., as indication of mycobacterial infection, 1D119
detmn. of alcohols and carboxylic acids in bacterial cultures, by g.l.c., 2D132
of chlorophyll *a* in suspensions of algae or phytoplankton, fluorim., 5D178
of chlorophylls *a* and *b* in phytoplankton, by h.p.l.c., 1D224
of DNA in aquatic, fluorim., 1H85
of free fatty acids in bacteria, by g.l.c., 6D158
of pyridine-2,6-dicarboxylic acid in bacterial spores, u.v. deriv. spectrosc., 5D125
of S²⁻ produced by sulphate-reducing bacteria, potentiom., with ion-selective electrode, 3D44
identn. and detmn. of cAMP in *Chlorella* spp., by h.p.l.c., 1D234
immobilisation of, and their use for substrate transformation, review, 3D16
interpretation of pyrolysis mass spectra of bacteria, 1D7
sepn. of bacterial menaquinones, by h.p.l.c., 1D246
- Microscopy**, see also *Electron microscopy*; *Ion microscopy*
chemical, 2J154B
forensic applications of, review, 2J78
- Midecamycin**, **3 β ,9-diacetyl-**, detmn. of metabolites of, by r.i.a., 6D66
- Milk**, analysis, effects of K₂Cr₂O₇ and sample-storage time in Milko-Scan and Pro-Milk Mk II methods for, 2F25
of fatty acids in, by g.c., formic acid trap for use in, 4F46
of sugars in, by h.p.l.c., 4F24
assay of catalase in, automated, 2F28
of enzymes in, clarification method for, 1F28
detmn. of aflatoxin M₁ in, by h.p.l.c., 4F47
by t.l.c. - fluorim., 6F40
of benzoic acid, 4-hydroxybenzoic acid esters and sorbic acid in preparations of sour, by h.p.l.c., 3F35
of caffeine and its metabolites in, by h.p.l.c., 5D29
of Cl⁻ in, potentiom., with ion-selective electrode, 4F43
of chloramphenicol in, by h.p.l.c., 6F13
of chloramphenicol, furazolidone and sulphonamides in, by h.p.l.c., 5F42
of Cu in, spectroph., 5F44
of dirt content of, BSI methods for, 3F30, 3F31

Milk, determination—continued

- of flunarizine in, by g.l.c., 3D132
- of galactose, glucose and lactose in lactose-reduced, by h.p.l.c., 6F38
- of gums and thickeners in skimmed, by g.l.c., 2F11
- of H_2O_2 in bottled, spectroph., 6F12
- of ^{129}I in, by n.a.a., 1H71
- of lactose in, by h.p.l.c., 5F47
- of α - and β -lactose in, by h.p.l.c., 2F29
- of Mn in, by kinetic - fluorim. method, 1F5
- of Hg in, by isotope dilution, 6B57
- of migration of components of packaging materials into, use of correlations in, 1F13
- of oxidised ketone bodies in, by flow-injection - spectroph. method, 5F48
- of pyridoxine metabolites in, ion-exchange chrom. - fluorim., 4D297
- of riboflavin in, by h.p.l.c., 4F42
- of Se in, by a.a.s., 6D41
- of taurine in, with amino-acid analyser, 1F27
- of tetracyclines in, by agar-diffusion test, 6F41
- of U in, by fission-track method, 5F45
- of whey protein index in, by dye-binding method, 2F27
- extraction of ^{89}Sr from, with dicarbollide of cobalt, 6F35
- sepn. and detmn. of proteins in, gel electroph., 3F33
- liquid chrom., 3F32
- of sugars in, by t.l.c. - densitom., 4F44
- , **goat's**, detection of cow's-milk protein in, immunoelectroph., 6F43
- detmn. of urea in, enzymic - spectroph., 1F29
- , **human**, analysis of org. acids in, by g.c. of TMS deriv. - m.s., 2D138
- assay of guanosine diphosphate-L-fucose:2-acetamido-2-deoxy- β -D-glucopyranoside-(1 \rightarrow 4)- α -L-fucosyltransferase in, by t.l.c. - radiom., 2D282
- detmn. of amidarone in, by h.p.l.c., 6D109
- of As, Cu, Mn, Mo and Zn in, by n.a.a., 6D21
- of Ca^{2+} in, potentiom., with ion-selective electrode, 6D26
- of cholecalciferol, ergocalciferol and their 25-hydroxy-deriv. in, by h.p.l.c. - competitive protein-binding assay, 5D192
- of F in, by ashing - diffusion method or potentiom., with ion-selective electrode, 3D45
- of Pb in, by a.a.s., and of Ni in, emission spectrom., 5D18
- of organobromine and organochlorine compounds in, by n.a.a., 3D46
- of organochlorine pesticides and PCB in, by g.l.c., 5D84
- of phenobarbitone and valproic acid in, by g.l.c., 4D83
- identn. and detmn. of thyroxine in, by g.c. of *NO*-bis(trifluoroacetyl) methyl ester - m.s., 6D216
- isolation of lacto-N-neotetraose from, paper chrom. - h.p.l.c., 6D149
- , **sheep's**, detection of cow's-milk protein in, immunoelectroph., 6F43
- Milk fat**, detmn. in milk, effects of $K_2Cr_2O_7$ and sample-storage time in, 2F25
- in milk powder, with InfraAlyzer 400, 6F37
- of *trans*-fatty acids in, by AOCS method, 6F39
- of progesterone in, by enzyme immunoassay, 3D188
- Milk powder**, detmn. of aflatoxin M_1 in, by h.p.l.c., 4F47
- by t.l.c. - fluorim., 6F40
- of elements in, by PIXE, 6F34
- by XRF, 1F4
- of fat, protein and H_2O in, with InfraAlyzer 400, 6F37
- of formaldehyde in, using $NaCNBH_3$ reduction, 4F45
- of Hg in, by a.a.s., 6F36
- of NO_3^- in, by a.a.s., 3F34
- of NO_3^- and NO_2^- in, by BSI cadmium-column reduction - spectroph. method, 5F46
- of reducing sugars and sucrose in, by h.p.l.c., 3F6
- of U in, by fission-track method, 5F45

Milk products, see Dairy products**Millet**, detmn. of Ti in, differential pulse polarogr., 6G3**Minaprine**, detmn. in blood plasma, with its metabolites, by h.p.l.c., 5D58**Minerals, ores and rocks, see also Lunar materials; Meteorites; Volcanic ash**

- analysis, applications of ion micro-probe in, review, 3B166
- applications of pyrolysis - g.c. methods in, review, 2J56
- neutron source for use in, 5A4C
- photoacoustic spectrom. - d.t.a., 2A4C
- problems of trace analysis in, review, 5A7
- report of conference on micro-probe methods in, 1A1
- review, 4A2
- of weathered layers on stone artefacts, 4B205
- dating of, by thermal methods, 2A4C
- detmn. of Sb in, by a.a.s., 4C45
- with automated hydride generation, 1B122
- of As in, by a.a.s., with automated hydride generation, 1B122
- oscillopolarogr., 1B121
- of Be in, by a.a.s., 1B48
- spectroph., 4B50, 4B51
- of ^{10}Be -to- ^{10}Be ratio in ferromanganese deposits, with tandem accelerator, 2H51
- of Br in, by isotope dilution - m.s. or electrochem., 6B142
- of Cd in, by a.a.s., 3B52
- of Cd in Pb - Zn-containing, spectroph., 5B54

Minerals, ores and rocks, determination—continued

- of Cd in Zn-containing, by thermal-neutron absorption, 6B53
- of carbonate-C in, by acid digestion - two-end-point titrim., 1G12
- of Cl^- in, ion chrom., 4B149
- of Cr in, spectroph., 3B121
- of Co in Ni-containing, spectroph., 5B151
- of component minerals in Mn-containing, selective dissolution method for, 4B156
- of Cu in, emission spectrom., 4B165
- spectroph., 2B33
- of Cu in, or in their enrichment products, X-ray spectrosc., 5B38
- of Cu in products of, complexom., 5B35
- of cryolite in, potentiom., with F⁻-selective electrode, 5B175
- of elements in, by activation analysis, 5A4C
- by cumulative n.a.a., 3B167
- by n.a.a., 1B9, 5B8
- by spark-source m.s., 1B192
- by XRF, 5B172, 6B180
- portable system for, 3B165
- review, 4B208
- X-ray source for use in, 3J62
- comparison of methods for, 1B191
- emission spectrom., 6G7
- automated, 4B206
- effect of dispersion and stray light in, 5B174
- use of correlations in, 2J109
- spectrogr., 3J80
- with electron micro-probe, 5B173
- of elements in clay, with electron micro-probe, 6B181
- of elements in concentrates of Pb - Zn-containing, by XRF, effect of composition and particle size of sample in, 1B111
- of elements in construction materials, by n.a.a., 5B194
- of elements in Fe-containing, by a.a.s. or a.e.s., sepn. method for use in, 4B168
- by XRF, review, 4B171
- of elements in leachate from, 1H49
- of F⁻ in soln. from leaching of, potentiom., with ion-selective electrode, 3B127
- of F in Fe-containing, by combustion - potentiom., with ion-selective electrode, 3H6
- of Ga in, oscillopolarogr., 4B65
- of Ga in Fe-containing, by a.a.s., 6B150
- of Ge in, spectroph., 5B98
- of Au in, by a.a.s., after pre-concn. with zephiramine, 4B48
- by micellar solubilisation - spectroph., 5B45
- by n.a.a., 6B46
- spectroph., 5B42
- of Au in concentrates from, by a.a.s., sample decomposition by oxidative fluorination for, 4B49
- of gypsum in, by selective dissolution, 6B182
- of C_1 to C_{15} hydrocarbons in, by thermal mobilisation - g.c., 1C66
- of In in, polarogr., 2B59
- of Ir in, by a.a.s., 1B188
- of Ir in concentrates from Cu - Ni-containing, stripping voltamm., 3B157
- of Fe in, complexom. or spectroph., 1B154
- emission spectrom., 4B165
- spectroph., 2B142, 3B9
- of Fe in, or in their enrichment products, X-ray spectrosc., 5B38
- of Fe^{II} and Fe^{III} in, 4B161
- of Fe^{II} , Fe^{III} and metallic Fe in, complexom., 1B156
- of Pb in, by a.a.s., 6B102
- of Li in, ion-exchange chrom. - ring-oven fluorim., 6B28
- of manganite in, titrim., 1B152
- of metal carbonate, metal sulphate, pyrite and org. contaminants in, by thermal analysis, 2A4C
- of Mo in, comparison of spectroph. methods for, 6D42
- spectroph., 2B131
- of Ni in, emission spectrom., 4B165
- spectroph., 5B155
- of Nb in, emission spectrom., 2B117
- spectroph., with extraction into molten naphthalene, 4B132
- of noble metals in, by charged-particle activation, 3B12
- of Pd in, by a.a.s., 1B188
- after pre-concn. with zephiramine, 4B48
- of Pd in matte from Cu - Ni-containing, 3B159
- of P in, spectroph., 2B110
- of Pt in, by a.a.s., 1B188
- after pre-concn. with zephiramine, 4B48
- of Ra-to-U ratio in, using 'hyperpure' germanium detector, 1B96
- of rare-earth metals in, by n.a.a., 4B78
- emission spectrom., 4B73
- spectroph., 4B75
- of Re in, spectrogr., 6B144
- of Rh in, by a.a.s., 1B188
- of Rh in concentrates from Cu - Ni-containing, stripping voltamm., 3B157
- of Ru in, by a.a.s., 1B188
- of Sc in, emission spectrom., 4B73
- of Se in marine, fluorim., 5B130

Minerals, ores and rocks, determination—continued

- of Ag in, by a.a.s., after lead collection and HClO_4 parting, 4B45
- spectroph., 2B33, 6B41
- of S in, by isotope dilution - m.s., 4B134
- spectroph., 3B110
- of S in Fe-containing, by isotope dilution - spark-source m.s., 2B150
- of Ti in, by a.a.s., 6B66
- of Ti isotopes in, by electro-deposition - surface-ionisation m.s., 4B69
- of Th in, α -spectrom., 4B95
- oscillopolarogr., 2B70
- of Sn in, spectroph., 3B94
- of W in, indirect polarogr., 2B133
- of U in, α -spectrom., 4B95
- deriv. oscillopolarogr., 2B72
- of U in leachates from, by automated flow-injection - spectroph. method, 4B94
- of U in tailings, emission spectrom., 6B75
- of V in, spectroph., 1B167
- of V in Ti-containing, by a.a.s., 4B128
- of Y in, emission spectrom., 4B73
- of Zn in, by a.a.s., 3B52
- electron-microsc. studies of, review, 1B8
- extraction and analysis of interstitial water from 5H48
- sampling of, review, 3J1
- sampling and analysis, 2B181B
- surface characterisation in processing of, 3A1C
- thermoanalytical study of, 1B190
- , **phosphate**, detmn. of elements in, by photonuclear activation, 3B106
- by XRF, 1B119
- of P^{32} in, by measurement of total radioactivity, 5B114
- , **silicate**, analysis, by secondary-ion m.s. and with laser micro-probe mass analyser, 6B93
- ion-exchange sepn. for use in, 5J66
- detmn. of Al and Fe in, ion-exchange chrom. - a.a.s., 6B148
- of elements in, emission spectrom., 5B96
- spectroph., 1B107
- of Au in, pre-concn. method for, 6B43
- of lanthanoids in, by n.a.a., interference from U in, 6B95
- of O isotopes in, use of ClF_3 for O extraction in, 2B93
- of V in, ion-exchange chrom. - spectroph., 4B111
- , **sulphide**, detmn. of elements in ASK-III, by spark-source m.s., 1B193
- of products of reaction with K imino-oxyxanthate and its disulphide of, 1B135
- Mirex**, analysis of photo-degradation products of, by g.c. - FT i.r. spectrom., 6G33
- detmn. in biol. materials, by g.c., 1D103
- review, and detmn. in presence of PCB and other chloro-compounds in eels, by g.c., 1G32
- Misch metal**, detmn. of Dy, Sm and Y in, by a.a.s., 1B80
- Miserotoxin**, purification and detmn. in plants, spectroph., 6G19
- Misonidazole**, detmn. in blood plasma, by h.p.l.c., 1D93
- sepn. from its metabolite, by h.p.l.c., 5J26
- Mithramycin**, solvent extraction of, with org. solvents, 4E26
- Mitomycin**, detmn. in blood plasma or urine, by h.p.l.c., 6D64
- C, h.p.l.c. and m.s. study of, and of related compounds, 6E30
- Mixing**, capillary device for, for preparation of homogeneous soln. of elevated viscosity, 4J6
- Mohair**, differentiation from wool, electron microsc., 6C77
- Molasses**, analysis of sugars in, by h.p.l.c., 4F24
- detmn. of raffinose in, enzymic - spectroph., 3F13
- Molybdate**, detmn., coulom., 2B124
- potentiom., ion-selective electrode for, 6J146
- in presence of other anions, by g.l.c. of *t*-butyldimethylsilyl deriv. - m.s., 2B15
- sepn. from CrO_4^{2-} and WO_4^{2-} , ion chrom., 3C40
- Molybdenum**, detection, by synchrotron-radiation XRF, 2J87
- colour reactions for, 1B26, 5B25
- detmn., by a.a.s., 5B132
- suppression of Cl^- interference in, 4B15
- by catalytic - spectroph. methods, 1H70, 5B24
- by photokinetic - spectroph. method, 2B130, 4B143
- emission spectrom., reduction of interferences in, 3J84
- gravim., 6B135
- oscillopolarogr., 2B132
- spectroph., 1B142, 2B131, 3B122, 3B123, 3B124, 3B125, 4B144, 6B136
- stripping chronopotentiom., 4B145
- in air, colorim., 5H19
- in Al - Mo - Ni alloys, complexom., 4B21
- in biol. materials, comparison of spectroph. methods for, 6D42
- emission spectrom., 2D33
- in brine, by a.a.s., 4B152
- in coal or fuel oil, emission spectrom., with pre-concn. on poly-(dithiocarbamate) resin, 5B179
- in environmental materials, pulse polarogr., 2A2C
- in grass, by n.a.a., 3D20
- in human milk, by n.a.a., 6D21
- in liquid samples, spectroph., 2J108
- in minerals, ores or rocks, by XRF, 3J62
- comparison of spectroph. methods for, 6D42

Molybdenum, determination—continued

- in nickel alloys, emission spectrom., 2B157
- in petroleum or petroleum products, by XRF, 2C76
- in plants, a.c. polarogr., 2D39
- in presence of other elements, by n.a.a., 5B8
- in sea-water, by n.a.a., with pre-concn. by colloid flotation, 4H44
- with pre-concn. by column electrolysis, 5H55
- in sediments, by acid extraction - a.a.s., 4H41
- in sewage sludge, by XRF, 3H93
- in silicates, spectroph., 1B107
- in soil, extraction method for, 1G9
- in steel, Auger-electron spectrom., 3B140
- emission spectrom., 5J126
- spectroph., in flowing gas atmosphere, 3B137, 3B138, 3B139
- spectroph., 4B185
- in titanium, by PIXE, 2B14
- in urine, emission spectrom., 2D36
- in water, by a.a.s., with pre-concn. by ion exchange, 3H68
- by a.e.s., 1H48
- spectroph., 5H78
- of distribution of, in alloys, by laser irradiation - XRF, 2B146
- of Th and U in, by secondary-ion m.s., 1B204
- physical properties, chemistry and analysis, review, 2B129
- sepn. from Cu, ion-exchange chrom., 1J60
- from Mn, Ni and Zn, liquid chrom., 2B16
- from other elements, by t.l.c., 1B23
- from W, by t.l.c., 6B110
- from U, by ion exchange, 1J61
- from V, ion-exchange chrom., 6B137
- solvent extraction of, as thiocyanate, with ethyl methyl ketone, 1B140
- with Amberlite LA-2 from malonic acid soln., 3B124
- Molybdenum, reagents for**, 3-aryl-2-mercapto-3-methylpropenoic acids, 5B25
- benzoin α -oxime, 6B135
- bromopyrogallol red - hexadecyltrimethylammonium ion, 3B125
- bromopyrogallol red - poly(vinylpyrrolidone), 1B142
- catechol violet - hexadecylpyridinium bromide, 4B185
- cetrimide - salicylfluorone, 4B144
- crystal violet - SCN^- , 5H78
- imidoylphenylhydrazine - SCN^- , 2B131
- 4-(4-iodophenylazo)pyrogallol, 3B123
- N*-phenylbenzohydroxamic acid, 3B122
- promethazine hydrochloride, 6B136
- Rhodamine B, 6D42
- SCN^- , 5H19, 6D42
- thiosemicarbazones of hydroxybenzophenones, 1B26
- tiron, 3B124
- toluene-3,4-dithiol, 6D42
- 4-(2,3,4-trihydroxyphenylazo)benzenesulphonic acid, 3B123
- Molybdenum alloys**, review, 2B129
- , **Mo - Al - Ni**, detmn. of elements in, complexom., 4B21
- , **Mo - Fe**, detmn. of Sb in, a.c. stripping voltamm., 2B148
- of Mo in, gravim., 6B135
- Molybdenum complexes**, with catechol violet and hexadecyltrimethylammonium ions, 5B9
- with dibutylthiocarbamate, synthesis and h.p.l.c. sepn. of, 1B141
- Monazite**, detmn. of Ce, La, Nd and Pr in, by t.l.c. - spectroph., 6B68
- of Eu in, automated spectroph., 3B68
- of Th in, complexom., 3B73
- Monel metal**, detmn. of Cu in, spectroph., 5B151
- of Ni in, paper chrom. - densitom., 4B193
- Monensin**, detmn., voltamm., with measurement at interface between immiscible electrolyte soln., 4E25
- Monolinuron**, detection in water, fluorim., 3H82
- detmn. in water, by h.p.l.c. - m.s., 3H80
- Monooxygenases**, see under *Enzymes, specific*
- Monosaccharides**, analysis, by g.l.c. of alditol acetates, derivatisation for, 2D119
- of methanolysis products of, by h.p.l.c. - m.s., 1C24
- detmn., by chemiluminescence method, 1C8
- sepn. and detmn. in biol. fluids, liquid chrom., with post-column reaction with hexa-amminecopper(II), 2D108
- of neutral, by methanolysis - h.p.l.c., 4D143
- sepn. and identn. of partially methylated alditol acetates derived from, by g.c. (or g.c. - m.s.) of acetyl deriv., 2C25
- Monuron**, detection in water, fluorim., 3H82
- Mordenite**, detmn. of amorphous material, analcime and mordenite in synthetic product, X-ray diffractom., 6B184
- Morinamide**, identn., micro-crystallogr., 5E44
- Morphine**, detection, by negative-ion chemical-ionisation m.s. of acyl deriv., 6E13
- in opium, by t.l.c., colorim. or titrim., 5E11
- detmn. in blood, by h.p.l.c., 3D57
- in ethylmorphine hydrochloride, by t.l.c., 2E7
- in opium or its preparations, comparison of methods for, and recommended purification procedure, 4E8
- in poppy extracts, by t.l.c., comparison of densitometers for, 3E11
- in presence of narcotoline, gravim., 1E19
- in urine, by t.l.c., 4D53
- inactivation of lysozyme in EMIT-dau method for, 1D51

Morphine—continued

- sepn. from other opium alkaloids, by h.p.l.c., 1E18, 2E6
- Morphine derivatives**, t.l.c. study of quaternary halides, 3C68
- Morpholine**, detmn., with modified thermal energy analyser, 1C34
- in food-packaging materials, by g.c. - thermal energy analysis, 4F18
- in water, BSI spectroph. method for, 5B31
- , **4-methyl-**, detmn. in air, by g.l.c., 5H38
- , —, **N-oxide**, detmn. of H₂O in, semi-automated potentiom., 3C100
- , **4-nitroso-**, detmn. in food-packaging materials, by g.c. - thermal energy analysis, 4F18
- Morpholinium bromide**, **4-(2-bromo-4,5-dimethoxyphenyl)-4-[2-(2-(6,6-dimethylbicyclo[3.1.1]hept-2-yl)ethoxy)ethyl]-**, see *Pinaverium bromide*
- Mucopolysaccharides**, detmn. in cartilage or cultures thereof, spectroph., 2D125
- of galactose, hexosamines and uronic acids in, by g.l.c., 4D144
- of glycuronic acid-containing, enzymic - u.v. spectroph., 3D154
- sepn., gel chrom., 5D92
- liquid chrom., 4D145
- Mucoprotein**, detmn., turbidim., comparison of sensitivities of methods for, 2D243
- Mud**, analysis of dyes in, by h.p.l.c., 6H75
- detmn. of Se in, spectroph., 5B128
- Muramic acid**, detection in sputum, by g.l.c. of methyl ester - m.s., 1D119
- detmn. in marsh grass, ion-exchange chrom. - g.c. of methoxime acetate, 2D117
- Muscle tissue**, analysis of protein in, two-dimensional gel electroph., review, 3D236
- assay of muscle-specific creatine kinase in, by enzyme immunoassay, 6D175
- detmn. of cefepazone in, by h.p.l.c., 5D35
- of elements in, by n.a.a., after liquid-chrom. removal of Na, 1D25
- of glycerol formal in, by g.l.c. - chemical-ionisation m.s., 6D120
- of metabolites in, by bioluminescence method or fluorim., 4D13
- of myosin in, by isotope dilution - gel electroph. or r.i.a., 4D255
- of phosphates in, with Bessman phosphate analyser, 6D12
- of trenbolone in, by r.i.a., 3D74
- sepn. of hydrophobic proteins of, by gel filtration, 1D191
- sepn. and detmn. of proteins of, gel electroph., using silver-staining method, 4D237
- Mushrooms**, detmn. of amatoxins in, by r.i.a., 5D89
- of oct-1-en-3-ol in, or in their products, by g.l.c., 2F35
- Mussels**, characterisation of tissues of, by g.c., with use of SIMCA multivariate data analysis, 6F33
- detmn. of 4,4'-isopropylidenedi-(2,6-dibromophenol) in, by g.c. - m.s., 6H59
- of Hg in different chemical forms in, by a.a.s. - g.l.c., 4F36
- Must**, analysis of volatile components of, by head-space g.c., 4F60
- detmn. of carboxylic acids and sugars in, by g.l.c. of TMS deriv., 2F57
- of fungicides and their degradation product in, by h.p.l.c., 3G35
- Mycocerosic acid**, detection in sputum, by g.l.c. of methyl ester - m.s., 1D119
- Mycotoxins**, analysis, by h.p.l.c., review, 4F3
- detmn. in dairy products, review, 5F43
- in foods, review, 3F1
- Myelin basic protein**, detmn., by r.i.a., 3D257
- Myoglobin**, detection in h.p.l.c. eluate, Raman spectrom., 1D200
- detmn. in meat, spectroph., 1F22
- sepn. from cyanocobalamin, by h.p.l.c., 5D157
- Myoinositol**, see *Inositol*, myo-
- Myosin**, detmn. in muscle tissue, by isotope dilution - gel electroph. or r.i.a., 4D255
- sepn. of light chains of, by high-speed gel filtration, 4D256
- Myristicin**, detmn. in *Petroselinum hortense* fruit, by t.l.c. - densitom., 4E35

N

- Nadolol**, detmn., by g.l.c., 2E51
- Nalidixic acid**, detmn., non-aq. titrim., 5E27
- in fish tissues, by h.p.l.c., 4F38
- in urine, with its 7-hydroxymethyl deriv., polarogr., 5D72
- Naloxone hydrochloride**, detmn. in pharmaceutical preparations, by h.p.l.c., 6E62
- Nandrolone**, pharmacokinetics of, 6A5C
- Nantradol**, detmn. in blood plasma, by h.p.l.c., 4D73
- Naphazoline hydrochloride**, phosphorim. study of, on filter-paper at low temp., 2J124
- Naphtha**, analysis of hydrocarbon types in, by automated g.c., 1C77
- Naphthalene**, detection, phosphorim., 3C60
- detmn. in air, by g.l.c., 5H34
- in presence of biphenyl, liquid chrom. - m.s., 1J51
- sepn. from other aromatic hydrocarbons, by h.p.l.c., use of multiple linear-regression analysis for calculation of conditions for, 5C30
- , **2-acetamido-**, **NO-(β -D-glucuronide)**, synthesis of, and analytical data for, 5D8
- , **chloro-**, detmn. in air, by g.l.c., 5H34
- , **decahydro-1,4-dihydro-**, detmn. in presence of decachlorobiphenyl and octachloronaphthalene, by h.p.l.c., 4C90
- Naphthalene—continued**
- , **1,4-dimethyl-**, detmn. in head-space vapours of treated potatoes, by g.c., 3G28
- , **methyl-**, detmn. in air, by g.l.c., 5H34
- , **octachloro-**, detmn. in presence of decachlorobiphenyl and decachloro-1,4-dihydronaphthalene, by h.p.l.c., 4C90
- Naphthalene derivatives, chloro-**, detection, phosphorim., 3C60
- detmn. in soil, by g.c. and liquid chrom., 6A5C
- identn., by h.p.l.c. - room-temp. phosphorim., 1C55
- , **dimethyl**, h.p.l.c. - spectrosc. study of, 4C35
- , **fluoro-**, g.l.c. and t.l.c. studies of, 5C44
- , **hydroxy-**, g.l.c. study of, and of their acyl deriv., 6C41
- Naphthalene-1,3-disulphonic acid**, **7-hydroxy-**, detmn., by h.p.l.c., 4C73
- Naphthalene-3,6-disulphonic acid**, **1-nitroso-2-hydroxy-**, **disodium salt**, extraction from aq. soln., with liquid anion exchangers, 6A19
- Naphthalene-1-sulphonic acid**, **2-amino-**, analysis of products of sulphonation of, by h.p.l.c., 1C56
- Naphthalene-2-sulphonic acid**, **6-amino-4-hydroxy-**, detmn., by h.p.l.c., 4C73
- Naphthalenesulphonic acids**, sepn., liquid chrom., 6C72
- Naphthalen-2-one**, **1-hydroxy-4-isopropyl-7-methoxy-1,6-dimethyl-**, see *Lacilinene C 7-methyl ether*
- Naphthas**, detmn. in air, by g.l.c., 5H42
- Naphthenes**, detmn. in gasoline or naphtha, by automated g.c., 1C77
- in gasoline fractions, by g.l.c., 3C77
- Naphthohydroxamic acid**, analysis, by h.p.l.c., 5C46
- 1-Naphthol**, detmn., by kinetic - spectroph. method, 1C9
- fluorim., effect of basicity of medium in, 3G43
- sepn. from other urinary pesticide metabolites, by h.p.l.c., 5D85
- 2-Naphthol**, detmn., by kinetic - spectroph. method, 1C9
- in water, photom., 3H76
- , **1-(3-methyl-1H-pyrazol-5-ylazo)-**, spectroluminescence of, 3B108
- Naphthols, decahydro-**, simulation of ¹³C n.m.r. spectra of, 6C32
- Naphthol[2,1,8-gra]naphthacene**, detmn. in soot, by g.c. - m.s. or by h.p.l.c., 1C60
- Naphthone**, **3'-ethyl-5',6',7',8'-tetrahydro-5',5',8',8'-tetramethyl-2'-aceto-**, detmn. in cosmetics, with its isomer, by h.p.l.c. - g.l.c., 1C95
- 1-Naphthylamine**, detmn. of 2-naphthylamine in, by g.c., 3C61
- 2-Naphthylamine**, detmn. in 1-naphthylamine, by g.c., 3C61
- Naproxen**, detmn. in blood serum, by t.l.c. - fluorim., 6D87
- Narceine**, sepn. from other opium alkaloids, by h.p.l.c., 2E6
- Narcotoline**, identn. in presence of morphine, by t.l.c., 1E19
- Natural gas**, see under *Fuel gases*
- Neocycasins**, detmn. in cycad leaves, by h.p.l.c., 3D152
- Neodymium**, detmn., gravim., 4B81
- spectroph., 4B82
- with use of magnetic circular dichroism, 1B89
- in aluminium yttrium garnet, by XRF, 3B178
- spectroph., 6B193
- in aluminium yttrium garnet laser rods, spectroph., 6B194
- in copper, flame photom., with sepn. by amalgam electrolysis, 6B36
- in hydriding alloys, emission spectrom., 2B158
- in presence of Ce, La, Pr and Sm, by h.p.l.c. - spectroph., 2B63
- of Ho or Tm, spectroph. - titrim., 4B80
- of other rare-earth metals, by t.l.c. - spectroph., 6B68
- in silicates, by n.a.a., interference from U in, 6B95
- spectrogr., 1B107
- in yttrium oxide, emission spectrom., 2B62
- of isotopic ratios of, by m.s., 2B76
- in presence of Sm, by resonance-ionisation m.s., 3B68
- sepn. from Gd and Sm or from Lu, magneto-paper electroph., 3B15
- solvent extraction of, with crown ethers, 3B66
- Neodymium, reagents for**, arsenazo III, 2B63
- chlorophosphonazo III, 6B68
- tetraethylenepentaminehepta-acetic acid, 4B82
- N-p-tolylloxamic acid*, 4B81
- Neodymium oxide**, detmn. of Cu in, spectroph., 1B81
- Neomycin**, detmn. in pharmaceutical preparations, by t.l.c., 3E24
- Neon**, detmn. in helium, by laser-induced fluorescence, 6J8
- Neopterin**, cyclic-voltamm. study of, 6D265
- Neostigmine hydrobromide**, detmn., non-aq. titrim., 5E2
- **methylsulphate**, detmn., spectroph., 1E1
- Nepresol**, see *Dihydralazine*
- Neptunium**, detmn., controlled-potential coulom., 5B91
- potentiom., NpO_2^{2+} -selective electrode for, 3J138
- in irradiated nuclear fuels, by n.a.a., 4B100
- ion-exchange study of, 1B98
- solvent extraction of, with tributyl phosphate from HCl or HClO_4 media, 3B80
- Nerol**, detmn. in presence of other terpenoid alcohols, by h.p.l.c., 4C67
- sepn. from geraniol, by g.c., 1J66
- Nervous tissue**, see also *Brain tissue*
- detmn. of Pb and Zn in, by isotope dilution - m.s., 1D30
- of leucine-enkephalin in spinal-cord, by h.p.l.c. - fluid-desorption m.s., 6D222
- of monoamines in neuronal systems, applications of formaldehyde-induced fluorescence in, review, 2D191
- identn. and detmn. of neurotransmitters in enteric, review, 1D181
- sepn. of proteins from splenic, by h.p.l.c. or gel chrom., 5D157

- Netilmicin**, detmn. in blood serum, by enzyme immunoassay, 5D39
by h.p.l.c., 4D65
in presence of other aminoglycosides, by h.p.l.c., 4D64
- Neuraminic acid, N-acetyl-**, detection of free, in urine, by t.l.c., 5D172
detmn., by g.l.c. of mannosamine deriv. released by N-acetylneuramin-
ate lyase, 3D261
in lipoproteins, by tungstophosphate - MgCl₂ pptn. - colorim., 1D217
of CMP-bound and free, in blood plasma, enzymic - radiom., 5D171
- Neuraminidase**, see under *Enzymes, specific*
- Neuropeptides**, detmn., 6A4C
- Neutron-activation analysis**, see also *Radioactivation analysis, by neutrons*
Neutrons, detection, inspector - instrument interface in portable instru-
mentation for, 3J128
solid-state track detection for dosimeters for, 5J143
- Nickel**, concn., by Donnan dialysis, 1B25
from Ca(NO₃)₂ medium, by selective sorption, 2B16
from sea-water, on quinolin-8-ol-bonded polymer supports, 5H49
from water, by chelating ion exchange, 1H44
by co-pptn. - flotation, 4H38
detection, by pptn. in viscous media, 3B18
colour reactions for, 1B26, 2B12, 4A10, 5B25
reaction for, 5B21
detmn., amperom., 1B65
by a.a.s., 3B19, 5J111
comparison of methods for, 3B11
oxime extractants for, 4D45
sample-introduction system for, 5J109
sources of error in, 6B23
with automated sample pre-concn., 1B11
by g.c. of 4,4'-(propane-1,2-diylamino)bis-(1,1,1-trifluoropent-3-
en-2-one) complex, 1B12
by kinetic - fluorim. method, 4B18
complexom., indicator for, 2A16, 2A17
semi-automated, 4J16
with differential electrolytic potentiom. detection of end-point,
5B15
coulom., 2B156
electrogravim., removal of Cl⁻ for, 5B154
emission spectrom., 4J86
effects of org. solvents in, 1B175
reduction of interferences in, 3J84
polarogr., 5B18
potentiom., ion-selective electrode for, 3J134
with Hg-selective electrode, 1B176
spectroph., 2A16, 2B155, 3A9, 3B151, 3B152, 4A9, 4B39, 4B194,
5B155, 6B165, 6B168
calibration method for, 6A16
voltamm., 6B160
in air-borne dust, by a.a.s., digestion methods for, 4H8
in alloys, by secondary-neutral m.s., 3J93
complexom., 4B186
paper chrom. - densitom., 4B193
in Al - Mo - Ni alloys, complexom., 4B21
in biol. materials, by XRF, 1F4
emission spectrom., 2D33
spectrogr., 5D12
in biol. tissues, emission spectrom., 2D35
in brine, by a.a.s. or a.e.s., 4B152
in coal or fuel oil, emission spectrom., with pre-concn. on poly-
(dithiocarbamate) resin, 5B179
in Co - Cu - Ni alloys, complexom. or spectroph., 6B164
in condensates, differential spectroph., 6B166
in copper alloys, by XRF, 6B38
spectroph., 2B32
in environmental materials, by h.p.l.c. of chelate complexes, 2H43
in estuarine water, by a.a.s., 1H50
in fats or fatty oils, by a.a.s., 4F67
in fatty acid still-bottom residues, by a.e.s., 2C34
in fertilisers, emission spectrom., 2G5
in foods, differential pulse polarogr., 5F1
in hair, by photon activation, 1D19
in human milk, emission spectrom., 5D18
in iron, spectroph., 3B150
in liquid samples, spectrogr., 2J108
in liver tissue, by a.a.s., 3D18
in magnesium, spectrogr., 3B44
in marine samples, review, 4H39
in minerals, ores or rocks, by XRF, 3J62
emission spectrom., 4B165
in petroleum or petroleum products, by a.a.s., 2C61, 4C57, 4C58
by BSI a.a.s. method, 4C55
by XRF, 2C76
in plants, by a.a.s., 6D17
by h.p.l.c., 4D25
by XRF, 6G1
in presence of Cd, Co, Cu and Mn, ion chrom., with pre-concn. by
Donnan dialysis, 6J44
of Co, by flow-injection - kinetic - spectroph. method, 2B154
voltamm., 3B153
- Nickel**, determination, in presence—*continued*
of Co and Fe, by h.p.l.c. of 1-(2-pyridylazo)-2-naphthol complexes,
1B174
by t.l.c. - radiom., 5B12
of Cu, by automated h.p.l.c., 4H92
gravim., 3B32
of other elements, by n.a.s., 5B8
in sea-water, by a.a.s., extraction method for, 2H45
by isotope dilution - m.s., 6H39
in sediments, by acid extraction - a.a.s., 4H41
in sediments or sewage sludge, by a.a.s., interferences in, 3H44
in sewage sludge, by a.a.s., 1H86
sample pre-treatment for, 4H89
in sherry-type wines, by a.a.s., wet-ashing method for, 5F66
in silicates, by lithium borate fusion - a.a.s., 4B10
by XRF, 4B110
spectrogr., 1B107
in soil, by sorption - XRF, 3G8
in steel, Auger-electron spectrom., 3B140
complexom., 4B186
emission spectrom., 5J126
spectrogr., in flowing gas atmosphere, 3B137, 3B138, 3B139
spectroph., 1B162, 3B150
in titanium, by PIXE, 2B14
in triuranium octaoxide, emission spectrom., 5B87
in uranium or its oxide, by a.a.s., 5B88
in waste water, emission spectrom., 1H88
in water, by a.a.s., using stabilised-temp. platform furnace, 1H47
with pre-concn. by co-pptn., 2H44
by a.e.s., 1H48
by PIXE, 1H46
by XRF, with pre-concn. by pptn. of diethyldithiocarbamate, 5H53
in Zircaloy, emission spectrom., 4B114
of Cu and Pb in, anodic-stripping voltamm., 2B159
of different chemical forms of, in beverages, by selective sorption -
differential pulse polarogr., 2F38
of distribution of, in alloys, by laser irradiation - XRF, 2B146
of Pb in, by m.s., 3J104
of ⁶³Ni specific activity and of total, by liquid scintillation counting -
spectroph., 6B167
of speciation of, in beverages or foods, review of sepn. procedures
used for, 6F2
in coffee, tea or wine, 1F3
extraction-chrom. study of, 6B21
ion-exchange studies of, 4B6, 6B14
isotopic analysis, by ICP m.s., 4J105
sepn. from Cu, by ion exchange, 5J65
from Cu, Pb and Ag, with cyclic amplification by successive pptn. -
filtration, 6B12
from Cu or Hg, with xanthated Sephadex, 1B22
from Cu and Zn, ion-exchange chrom., 3J41
from Ga, ion-exchange chrom., 2B56
from Fe, by h.p.l.c. of 2,2'-bipyridyl complexes, 5B156
from Mo, liquid chrom., 2B16
from other elements, by t.l.c., 1B23, 3B13
ion chrom., 1B16
ion-exchange chrom., 5B16, 6B15
from U, ion-exchange chrom., 3B79
solvent extraction of, as 2,2'-bipyridyl - ethylxanthate complex, 3B153
with decanoic acid in CHCl₃, 5B23
with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - trioctyl-
phosphine oxide, 1H45
with quinoline-8-carbodithioic acid, 3A14
with Na bis-(2-ethylhexyl) phosphate, 1B38
with tetrachlorodithizonates, 1B17
- Nickel, reagents for**, 3-aryl-2-mercapto-3-methylpropenoic acids, 5B25
benzenethiol, 6B168
biacetyl bis-(4-phenyl-3-thiosemicarbazone), 6B165
1,5-bis(di-2-pyridylmethylene)thiocarbohydrazide, 4A10
2-(6-bromobenzothiazol-2-ylazo)-5-diethylaminophenol, 4A9, 4B194
2-(6-bromobenzothiazol-2-ylazo)-5-dimethylaminophenol, 4A9
3-(5-bromo-2-pyridylazo)chromotropic acid, 3A9
N¹-(4-chlorophenyl)-N²-(4-chloro-*o*-tolyl)-N¹-hydroxybenzamidene
hydrochloride, 3B32
dimethylglyoxime, 2B32, 3B18, 4B193, 5B21, 6B167
2-(2-furylmethylene)hydrazinecarbothioamide, 5B155
2-(5-methylisoxazol-3-ylazo)-*p*-cresol, 2B155
6-(5-methyl-1,3,4-thiadiazol-2-ylazo)-3,4-xyleneol, 2A16
3-nitrosochromotropic acid, 6B164
phenanthrenequinone monothiosemicarbazone, 3B152
1-phenylbutane-1,3-dione 3-(4-benzyl-6-phenylpyridazin-3-yl)hydra-
zone, 4B39
1-(2-pyridylazo)-2-naphthol, 1B162
4-(2-pyridylazo)resorcinol, 2B154, 3B150
SNAZOXs, 3B151
thiophene-2-carboxaldehyde 2-quinolylhydrazone, 2B12
thiosemicarbazones of hydroxybenzophenones, 1B26
toluene-4-thiol, 6B168
- Nickel alloys**, see also *Incoloy 800H*
characterisation, by XRF, 5J102

Nickel alloys, characterisation—continued

- of single crystals of, electron microsc., 1A1C
- detmn. of Sb in, a.c. stripping voltamm., 2B148
- of Bi, Pb, Te and Ti in refractory, by a.a.s., 2J105
- of Ce and La in, spectroph., 2B66
- of Ce, La, Nd and Pr in hydriding, emission spectrom., 2B158
- of Co in spectroph., 2B153
- of element distribution in refractory, by laser irradiation - XRF, 2B146
- of elements in, by m.s., 1B170
- emission spectrom., with use of solid-sampling device, 2B157
- of elements in corrosion products of, emission spectrom., 3B154, 3B155
- of Ga in, by a.a.s., 4B176
- of Fe in, liquid chrom. - spectroph., 3B131
- of Fe and V in, amperom. or potentiom., 5B148
- of Pb in, by a.a.s., 3B96
- of Ni in, paper chrom. - densitom., 4B193
- of P in, spectroph., 2B111
- of Se in, by co-pptn. with As - a.a.s., 1B179
- of Si in, differential pulse voltamm., 1B103
- of Ti in, photom., 1B178
- of trace elements in, by a.a.s., 5B157
- of V in, by a.a.s., 4B128
- secondary-ion microsc. study of H in, 1A1C
- , Ni - Al, detmn. of Ni in, spectroph., 5B155
- , Ni - Al - Mo, detmn. of elements in, complexom., 4B21
- , Ni - Co - Cu, detmn. of elements in, complexom. or spectroph., 6B164
- , Ni - Co - Fe, detmn. of Th and U in, by secondary-ion m.s., 1B204
- Nickel complexes**, with 4-benzoyl-3-methyl-1-phenylpyrazoline-5-thione, 1A9
- with methionine, detmn., titrim., 6D215
- Nickel ores**, detmn. of Co in, spectroph., 5B151
- of Ir and Rh in concentrates from Cu-containing, stripping voltamm., 3B157
- of Pd in matte from Cu-containing, spectroph., 3B159
- Nickel(II) oxide**, detmn. of Cd and Pb in, polarogr., twin-cell deriv. and second-deriv. techniques for, 1B177
- Nickel sulphate**, detmn. of Pb in, spectroph., 5B103
- Nickel sulphide**, comparison of Auger-electron and X-ray photoelectron spectrom. studies of, 4B13
- Nickel tetracarbonyl**, detmn. in air, by g.l.c., 5H23
- Niclosamide**, detmn., colorim., 4E3
- Nicotinamide**, detection in *NN'*-hexamethylenebis(nicotinamide), by t.l.c., 1E72
- detmn., argentim., 4E31
- in pharmaceutical preparations, by h.p.l.c. with automatic continuous-flow sample preparation, 4E29
- by t.l.c. - densitom., 3E28, 3E29
- titrim., 3E27
- , *NN'*-hexamethylenebis-, detection of impurities in, by t.l.c., and detmn., spectroph. or titrim., 1E72
- Nicotinamide-adenine dinucleotide**, detmn. in beef, by h.p.l.c., 1F21
- in biol. tissues, by bioluminescence method, 3D275
- phosphate, detmn., by enzymic cycling method, 3D276
- Nicotinamide-adenine dinucleotide, reduced**, detmn., by automated bioluminescence method, 4D14
- enzyme electrode for, 1D229
- in biol. tissues, by bioluminescence method, 3D275
- Nicotine**, detection in urine, by t.l.c. - tandem m.s., 4D51
- detection and detmn. in blood plasma, by g.c. - m.s., 1D109
- detmn. in air, by g.c., 6H30
- in blood plasma, by g.l.c., 1D108, 5D87
- in tobacco, automated, 1D4, 1D5, 5D3
- Nicotinic acid**, detection in *NN'*-hexamethylenebis(nicotinamide), by t.l.c., 1E72
- detmn., argentim., 4E31
- in fruit juices, by h.p.l.c., 3F46
- in pharmaceutical preparations, spectroph., 4E32
- identn., i.r. spectrosc., 2E4
- Nicoumalone**, detmn. in blood plasma, with its metabolites, by h.p.l.c., 6D126
- Nifedipine**, detmn. in blood plasma, by g.l.c., 2D89
- by h.p.l.c., 1D83
- Nifurpirinol**, detmn. in fish tissues, by h.p.l.c., 2F24
- Niobium**, analysis of surface layer of oxide films on, X-ray photoelectron spectrom., 4B12
- detmn., by XRF, 6B34
- photom., 4B131, 6B121
- spectroph., 5B123, 6B122
- with extraction into molten naphthalene, 4B132
- in minerals, ores or rocks, by spark-source m.s., 1B192
- emission spectrom., 2B117
- in nickel alloys, emission spectrom., 2B157
- in plants, by XRF, 3G19
- in steel, by n.a.s., 3B143
- emission spectrom., 2B117
- spectroph., 4B183
- in superconducting thin films, spectroph., 5B192
- of C in, by deuteron activation, 2B118

Niobium, determination—continued

- of distribution of, in alloys, by laser irradiation - XRF, 2B146
- of Ta in, potentiom., with TaF₆-selective electrode, 4B133
- Niobium, reagents for**, 3-(butylamino)isobutyronitrile, 6B121
- chlorpromazine hydrochloride, 5B123
- chlorsulphophenol S, 4B183
- H₂O₂ - SNAZOX, 6B122
- 2-[5-(1-methyl-2-piperidyl)-2-pyridylazo]-*p*-cresol, 4B131
- 4-(2-pyridylazo)resorcinol, 5B192
- quinolin-8-ol, 4B132
- Niobium alloys**, detmn. of Ta in, by a.a.s., 6B156
- , Nb - Fe, detmn. of Sb in, a.c. stripping voltamm., 2B148
- of Si in, titrim., 1B169
- of W in, spectroph., 2B149
- Niobium complexes**, with bromobenzothiazolylazo-dyes, 4A9
- Nitralin**, sepn. from related herbicides, by g.c., 1G29
- Nitrate**, detmn. by flow-injection - spectroph. methods, 1A8, 1B116
- by flow-injection - voltamm. methods, 4B115
- photom., 6B111
- polarogr., 2B109
- potentiom., ion-selective electrode for, 6J144
- with ion-selective electrode, effects of anionic surfactants in, 2H60
- in acid rain, ion chrom., 1H56
- in acidic precipitation, by ion exchange - conductom., 4H37
- in aq. NaOH medium, ion chrom., 5B2
- in aq. soln., spectroph., 6H11
- in food or water, ion-interaction chrom., 2H59
- in milk powder, by BSI cadmium-column reduction - spectroph. method, 5F46
- in milk powder or whey powder, by a.a.s., 3F34
- in palladium-electroplating soln., potentiom., with ion-selective electrode, 4B200
- in presence of NO₂⁻, ion-exchange chrom. - negative thermal-ionisation m.s., 2B108
- of other anions, ion chrom., 1H55
- on dynamically coated columns, 6B20
- without suppression, 6B19
- ion chrom. - u.v. photom., 5B22
- ion-interaction chrom., 4B17
- in saliva or urine, enzymic - colorim., 5D21
- in soil, ion chrom., 6G14
- in soil or water, by flow-injection - spectroph. method, 6H44
- in tobacco, automated, 5D3
- in waste water, portable test kit for, 2H93
- potentiom., with ion-selective electrode, 5H98
- in water, automated ion chrom., 5H83
- by h.p.l.c., 4H57
- ion chrom., 3H58
- in water or waste water, evaluation of automatic analyser for, 3H57
- of gaseous and particulate, in air, with use of diffusion denuder with filter pack, 1H20
- sepn. from NH₄⁺ for ¹⁵N detmn., by vacuum-distillation method, 3B99
- from other anions, high-performance ion chrom., 5B3
- Nitrate reductase**, see under *Enzymes, specific*
- Nitrate-nitrogen**, detmn. in fertilisers, gas-phase mol.-absorption spectroph., 5G15
- in tea, spectroph., 2F39
- Nitrates**, detmn. of ¹⁵N-to-¹⁴N ratio in agricultural, by m.s., 6G11
- Nitrazepam**, detmn., by g.c., concn.-dependent behaviour in, 2E3
- colorim., 4E3
- in pharmaceutical preparations, spectroph., 1E55, 3E48
- of content uniformity of preparations of, polarogr. or u.v. spectroph., 1E5
- sepn. from related compounds, by h.p.l.c., 6E41
- Nitric acid**, detmn. in air, calibration and tests of filter-collection method for, 6H13
- possible error in denuder difference technique for, 5H16
- system for, 1H10
- with use of diffusion denuder with filter pack, 1H20
- in rain, air-borne instrumentation for, 3H42
- **alkyl esters**, detmn. in diesel fuel, liquid chrom. - i.r. spectroph., 2C74
- Nitriles**, identn., by g.c., 3C1
- of polycyclic aromatic, in emissions from straw or wood combustion, liquid chrom. - g.c. - m.s., 1H37
- Nitrite**, detection and detmn., 2C92
- detmn., amperom., with microbial sensor, 3B100
- by flow-injection - spectroph. methods, 1A8, 1B116
- by inhibition of photochem. oxidation of Co complex - spectroph., 5B150
- polarogr., 2B109
- radiom., 2A10
- spectroph., elimination of Cu interference in, 4B116
- titrim., 4B117
- in copper pyrophosphate plating soln., cyclic voltamm. or spectroph., 4B44
- in cutting fluids, ion chrom., 4C59
- in food or water, ion-interaction chrom., 2H59
- in foods, spectroph., 3F5
- in milk powder, by BSI spectroph. method, 5F46

Nitrite, determination—*continued*

- in presence of NO_3^- , ion-exchange chrom. - negative thermal-ionisation m.s., 2B108
 - of other anions, ion chrom., 1H55
 - on dynamically coated columns, 6B20
 - without suppression, 6B19
 - ion chrom. - u.v. photom., 5B22
 - ion-interaction chrom., 4B17
 - in saliva or urine, colorim., 5D21
 - in soil or water, by flow-injection - spectroph. method, 6H44
 - spectroph., 5H66
 - in tobacco, automated, 5D3
 - in waste water, portable test kit for, 2H93
 - in water, automated ion chrom., 5H83
 - by h.p.l.c., 4H57
 - sepn. from other anions, high-performance ion chrom., 5B3
- Nitro-compounds**, sepn. and detmn., by g.c., 5C24
- , **aliphatic**, identn., by g.c., 3C1
 - , **aromatic**, characterisation and identn., by pattern recognition using electrochem. data, 4C33, 4C34
 - detmn. in bio-sludges, by g.c. - thermal-energy analysis, 6H72
 - , **polycyclic aromatic**, detection, phosphorim., 4C40
 - detmn., by g.c. - negative-ion chemical-ionisation m.s., 1C61
 - in air, by g.c. - negative-ion chemical-ionisation m.s., 2H34
 - sepn. from parent hydrocarbons and detmn., by h.p.l.c. - g.l.c., 4C36
- Nitrofarin**, identn., by n.m.r., 5E45
- Nitroform**, detmn., potentiom., comparison of sensors for, 3J150
- Nitrofurantoin**, detmn., polarogr., 2E56
- Nitrogen**, see also *Amino-nitrogen*; *Ammonia-nitrogen*; *Nitrate-nitrogen*; *Urea-nitrogen*
- detection of H in, by palladium-surface acoustic wave interaction, 1B30
 - detmn. in air or argon, by time-of-flight m.s., 5J7
 - in aluminium alloys, by n.a.a., 6B61
 - in biol. materials, by n.a.a. *in vivo*, interferences in, 5D13
 - by pyrolysis - g.c., 5D19
 - digestion method for, 2D54
 - in coal or oil shale, by O-bomb combustion - ion chrom., 2B167
 - in feeding-stuffs or foods, automatic Kjeldahl analyser for, 4F7
 - in Kjeldahl digests of agricultural or animal products, using KMnO_4 as oxidant, 5G1
 - in natural gas, by g.c., 2C59
 - by m.s., 2C60
 - in org. compounds, see under *Organic elementary analysis*
 - in plants, by n.a.a., 5G2
 - interferences in, 6D38
 - use of samples for control in, 1G18
 - in plants or soil, comparison of methods for, 1G14
 - in presence of Ti, with automated electron micro-probe, 2B103
 - in pyrolysis gases, reference material for, 2A12
 - in small gas vol., by m.s., 2J138
 - in tobacco, automated, 5D3
 - in urine, by Kjeldahl method, 1D43
 - in vacuum system, by m.s., 3J7
 - of distribution of, in wheat grains, by deuteron activation, 1G4
 - of impurities in, by m.s., 4B118
 - of impurities in high-purity samples for semiconductor fabrication, by g.c. - m.s., 2J75
 - of ^{15}N enrichment in NH_4^+ , by enzymic - g.c. - chemical-ionisation m.s. method, 1D44
 - of ^{15}N -to- ^{14}N ratio in agricultural nitrates, by m.s., 6G11
 - of N_2 - O_2 ratio in air, by Raman scattering, 2H18
 - of NO_2 in, by Fabry - Perot photothermal method, 5J9
 - of org., and of stable-isotope ratios, in biol. materials, by m.s., 2D50
 - of particulate, in sludge or water, 5H64
 - of purity of gas mixtures with Ar of, in incandescent lamps, by measurement of glow-discharge decay rate, 5B113
 - of total, in water, by hydrazine reduction - spectroph., 1H65
 - of whole-body, by n.a.a. *in vivo*, interferences in, 6D20
 - on silicon, by deuteron activation 3B89
 - , **dissolved**, detmn. in silicone fluids, by g.s.c., 2C126
 - in water, by g.c., 3H46
- Nitrogen compounds**, detmn., by oscillopolarogr. titration, 6C9
- in water or waste water, sample treatment for, 2H58
 - in wine, potentiom., 3F50
 - of heterocyclic, in crude-oil fractions, liquid chrom. - m.s., 2C65
 - of org., by g.c., 6J64
 - enhancement of phosphorescence of heterocyclic, 2C57
- Nitrogen oxides**, detection, high-sensitivity device for, 1H18
- detmn. in air, apparatus for continuous, 2H17
 - semiconducting sensor for, 3J8
 - in exhaust gases, ion chrom., 2H15
 - in flue gases, calibration of instruments for, 6H11
 - in power-plant emissions, integrated sampling - analysis systems for, 4H13
 - in rain, air-borne instrumentation for, 3H42
 - , **N_2O** , detmn. in mixtures with O, with use of sandwich electrode, 1J193
 - in vacuum system, by m.s., 3J7
 - of ^{15}N , evolved from soils treated with labelled fertiliser, by m.s., 5G13

Nitrogen oxides—*continued*

- , **NO** , detmn. in air, spectroph., 4H12
 - in pyrolysis gases, reference material for, 2A12
 - in vacuum system, by m.s., 3J7
 - , **NO_2** , automated system for characterisation of sensors for, 5J8
 - comparison of personal sampling methods for, 1H19
 - detection, by photo-thermal method, 1A1C
 - detmn., amperom., microbial sensor, for, 6J13
 - by negative thermal-ionisation m.s., 2B108
 - in air, chemiluminescence detector for continuous, 5H15
 - pulsed thermal-lens spectroph., 6H12
 - spectroph., 4H12
 - in gas mixtures, solid-state sensor for, 2J173
 - in nitrogen, by Fabry - Perot photothermal method, 5J9
 - personal sampler for, 5H9
- Nitroglycerin**, see *Glycerol trinitrate*
- Nitro-groups**, detmn. in org. compounds, by a.a.s., potentiom. or titrim., 3C14
- Nitrosamines**, analysis of tobacco-specific, by g.l.c. - thermal energy analysis, 3D138
- detmn., differential pulse polarogr., 4H74
 - with modified thermal energy analyser, 1C34
 - in beer, by g.c. or h.p.l.c., with thermal energy analyser, 6F65
 - in beer, cured meat or malt, review, 5F62
 - in beer or malt, by g.c. - thermal energy analysis, 2F49
 - collaborative study of g.l.c. methods for, 2F50
 - in beer, malt or whisky, by g.l.c., 1F49
 - in brewing materials, by g.c. review, 6F58
 - in waste water, by g.c., 2H99
- Nitroso-compounds**, polarogr. studies of, review, 4C23
- Nitroso-groups**, detmn. in org. compounds, by a.a.s., potentiom. or titrim., 3C14
- Nitroso-R salt**, see *Naphthalene-3,6-disulphonic acid, 1-nitroso-2-hydroxy-, disodium salt*
- Nitrosyl complexes**, analysis, by pyrolysis - g.c., reference materials for, 2A12
- Nitrovin**, detmn. in fish tissues, by h.p.l.c., 2F24
- Nitroxoline**, detection, colour reaction for, 6E31
- Nivalenol**, detmn. in *Fusarium* mycelium, by h.p.l.c., 3G6
- , **3-acetyldeoxy-**, detmn. in *Fusarium* mycelium, by h.p.l.c., 3G6
 - , **deoxy-**, detection, by t.l.c., 5G20
- in cereals or feeding-stuffs, by g.l.c. of TMS deriv., 5G10
 - in maize, by t.l.c. - h.p.l.c., 5G11
 - detmn. in *Fusarium* mycelium, by h.p.l.c., 3G6
- Nobiletin**, sepn. from other citrus flavones, by h.p.l.c., 5F12
- Noble gases**, detmn. in vacuum system, by m.s., 3J7
- Noble metals**, detmn. of elements in, comparison of methods for, 1J111
- Nomifensine**, detection, reagents for, 4E44
- detmn. in blood plasma, by h.p.l.c., 6D95
 - in urine, with its metabolites, by t.l.c., 5A2C
- Nonadiene**, detmn. in tetraethyl-lead, by g.l.c., 2C72
- Noodles**, see under *Alimentary pastes*
- Noradrenaline**, detection in adrenaline, colour reaction for, 6C23
- detmn., fluorim., 1A13
 - liquid chrom., comparison of coulom. detectors for, 6D201
 - in biol. materials, by alumina extraction - enzymic - radiom., 4D195
 - in biol. tissues, by h.p.l.c., 4D190
 - in blood plasma, by h.p.l.c., 4D197
 - enzymic - radiom., 1D157
 - in brain tissue, by h.p.l.c., 2D199, 5D120
 - in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D155
 - in local-anaesthetic injections, by h.p.l.c. - fluorim., 5E36
 - in presence of adrenaline and dopamine, by t.l.c. of dansyl deriv. of tritiated methyl deriv. - liquid scintillation counting, 1D156
 - in urine, by h.p.l.c., 6D199
 - by isolation on immobilised H_2BO_3 - h.p.l.c., 4D191
 - comparison of methods for, 6D198
 - liquid chrom. - phosphorim., 3D203
 - radial-compression liquid chrom., 2D198
 - h.p.l.c. - m.s. study of ion pair formed with octanesulphate by, 4D194
 - identn. and detmn. in presence of adrenaline and dopamine, by t.l.c., 4E17
 - sepn. from other biogenic amines and products of their caeruloplasmin-catalysed oxidation, by h.p.l.c., 2D196
 - of metabolites of, by h.p.l.c., 1D152
- **O-sulphates**, detection, fluorim., 4D196
 - **tartrate**, detmn., indirect polarogr., 6E48
 - in pharmaceutical preparations, paper chrom. - spectroph. (or u.v. spectroph.), 6E47
- Noradrenaline, 3-O-methyl-**, detmn. in urine, by h.p.l.c., 6D202
- Noramidopyrine methanesulphonate sodium**, see *Dipyrene*
- Noramphetamine**, solvent extraction of, with CHCl_3 , artefact formation in, 4D49
- Norandrosterone**, detmn., by r.i.a., 6D67
- Norapomorphine, N-propyl-**, detmn. in biol. tissues or blood plasma, by g.l.c. of trifluoroacetyl deriv., 6D54
- in blood plasma, by h.p.l.c., 6D53
- Norcocaine**, solvent extraction of, with CHCl_3 , artefact formation in, 4D49
- Nordextropropoxyphene**, detmn. in blood plasma or urine, by g.l.c., 5D51

- Nordiazepam**, detmn. in blood plasma, by h.p.l.c., 5D57
- Nordihydroguaiaretic acid**, detmn. in lard or oil, collaborative study of h.p.l.c. method for, 5F75
- Norephedrine**, sepn. of enantiomers of, 5J20
- Norepinephrine**, see *Noradrenaline*
- Norharman**, sepn. from harman and other pyridoindole deriv., 1I77
- Normetadrenaline**, see *Noradrenaline*, 3-O-methyl-
- Normetanephrine**, see *Noradrenaline*, 3-O-methyl-
- Normetazocine**, solvent extraction of, with CHCl_3 , artefact formation in, 4D49
- Nornicotine**, solvent extraction of, with CHCl_3 , artefact formation in, 4D49
- , *N'-nitroso-*, detmn. in cigarette smoke or tobacco, by g.l.c. - thermal energy analysis, 3D138
- Norperthidine**, detmn. in blood plasma, by g.l.c. of carbamate deriv., 6D78
- solvent extraction of, with CHCl_3 , artefact formation in, 4D49
- 19-Nortestosterone**, see *Nandrolone*
- Nortriptyline**, detmn. in plasma, by g.c., 2D85
- by g.l.c., 3D95, 6D96
- by h.p.l.c., 6D95
- of free and bound, in blood plasma or saliva, by dialysis - g.c. of trifluoroacetyl deriv. - m.s., 2D84
- , *desmethyl-*, detmn. in blood plasma, by g.l.c., 6D96
- Nortropine**, *N-isopropyl-*, *tropate methobromide*, characterisation of tetraphenylborate deriv. of, and detmn., amperom., 1E25
- Norverapamil**, detmn. in blood serum, by h.p.l.c., 5D65
- Noscapine**, detmn. in blood serum, by h.p.l.c., 6D57
- in presence of papaverine, non-aq. titrim., 3E12
- sepn. from other opium alkaloids, by h.p.l.c., 1E18
- Nozepam**, see *Oxazepam*
- Nuclear-reactor coolants**, detection of radionuclides in primary, with semiconductor detectors, review, 5J97
- of acid value of ditolylmethane, potentiom., 5C33
- of impurities in sodium, emission spectrom., 1B33
- of ^{90}Sr in sodium, β -spectrom., 5B33
- monitoring of impurities in liquid sodium, review of electrochem. techniques for, 3B23
- Nuclear-reactor fuels**, application of non-destructive measurements to storage of spent, 3B81
- detmn. of α -activity of soln. obtained during reprocessing of, on-line instruments for, 5B90
- of Am and Cm in spent, by isotope dilution - m.s., 2B80
- of burn-up and residual fission content of irradiated assemblies, by neutron counting, 6B77
- of impurities in, by m.s., 1B97
- of Kr and Xe in gases released from, by m.s., 2B79
- of Np in irradiated, by n.a.a., 4B100
- of U isotopes in, by m.s., 1B93
- of ^{235}U in spent, control system for delayed-neutron interrogator for use in, 3B82
- instrument for monitoring of spent, 4J122
- Nucleic acid bases**, sepn. from other DNA constituents and from each other, by t.l.c., 5D183
- Nucleic acids**, analysis, by two-dimensional t.l.c., review, 5J74
- sepn., centrifugal chrom., 5J24
- , *deoxyribo-*, detmn., gel electroph. - fluorim., comparison of stains for, 1D228
- in aquatic micro-organisms, fluorim., 1H85
- in cultured fibroblast monolayers, fluorim., solubilisation for, 5D182
- in enzyme preparations or RNA, by t.l.c. - spectroph., 1D227
- in plant extracts, fluorim., 3D272
- of 5-methylcytosine in, by h.p.l.c., 5D189
- h.p.l.c. study of chemically modified, 4D279
- h.p.l.c. study of reaction with cisplatin of, 4D280
- sepn. of components of, by t.l.c., 5D183
- , *ribo-*, detmn., by bioluminescence method, 5D181
- of DNA contamination of, by t.l.c. - spectroph., 1D227
- purification, liquid chrom., 6D258
- , *transfer*, analysis of nucleosides in hydrolysate of, by h.p.l.c., 3D278
- sepn., by h.p.l.c., 3D271
- Nucleoside diphosphate-glucose pyrophosphorylase**, see under *Enzymes, specific*
- Nucleoside kinase**, see under *Enzymes, specific*
- Nucleosides**, analysis, by h.p.l.c. - m.s., 6D260
- by t.l.c., recovery of material from plates for, 4D213
- of tRNA-derived, by h.p.l.c., 3D278
- detmn. in blood serum, by h.p.l.c., 4D286
- fast-atom-bombardment m.s. studies of adducts with chemical carcinogens of, 6A7C
- liquid-chrom. study of, 1D242
- m.s. study of TMS deriv. of, 2D271
- negative-ion m.s. study of, 4D287
- sepn., by h.p.l.c., 4D285, 5D185
- from other DNA constituents and from each other, by t.l.c., 5D183
- of isomeric monoribo- and monodeoxyribo-, by h.p.l.c., 5D185
- of purine, from related compounds and from each other, by h.p.l.c., 4D281
- Nucleotides**, analysis of cellular, by t.l.c., 1D235
- of erythrocyte, by h.p.l.c., 1D232
- Nucleotides—continued**
- detmn. in blood platelets, by pulse-labelling with $^{32}\text{PO}_4^{3-}$ - paper chrom., 5D6
- fast-atom-bombardment m.s. studies of adducts with chemical carcinogens of, 6A7C
- g.c. - fast-atom-bombardment m.s. studies of, 3J58
- h.p.l.c. study of oligo-, 1D230
- h.p.l.c. study of reaction with cisplatin of, 4D280
- sepn., by h.p.l.c., 4C285
- liquid chrom., 1D233
- from other DNA constituents and from each other, by t.l.c., 5D183
- of adenine, from inorg. P and from each other, by t.l.c., 5D186
- of fish-tissue, from related substances and from each other, by h.p.l.c., 4F40
- of poly-, liquid chrom., review of FPLC technique for, 1D190
- of purine, from related compounds and from each other, by h.p.l.c., 4D281
- of purine from pyrimidine, by h.p.l.c., 4D282
- of pyridine, and of intermediates in their cycling, by t.l.c., 4D283
- sepn. and detmn. in biol. fluids, by h.p.l.c., 1D231
- of adenine, by t.l.c., 1D236
- sepn. and identn. of protected mono- and di-, by h.p.l.c. - field-desorption m.s., 2D269
- , *deoxyribo-*, purification of oligo-, by ion-exchange h.p.l.c., 3D273
- sepn. of oligo-, by h.p.l.c., comparison of methods for, 5D184
- , *ribo-*, sepn. of 3',5'-cyclic, liquid chrom., 3D274
- Nuts**, sepn. and identn. of phenolic acids in, by g.l.c. of TMS deriv. - m.s., 6F49
- Nylidrin**, see *Buphenine*
- Nystatin**, detmn., spectroph., 3E23

O

- Obidoxime chloride**, detmn., polarogr. or spectroph., 1E74
- in blood, polarogr., 4D126
- in blood serum or urine, polarogr. or spectroph., 1D101
- Occupational health**, report of symposium on, 2A1
- Ochratoxin A**, detection in olive oil, by t.l.c., 4F75
- detmn., by h.p.l.c. of *O*-methyl - methyl ester deriv., 5F36
- in mouldy foods, by t.l.c. - fluorim., 2F18
- Octadecanoic acid anhydride**, detmn. of free acid in, i.r. spectroph. or titrim., 1C30
- trans-Octadecenoic acids**, isolation from tissue-lipid extracts, by t.l.c. of methyl esters, 3D162
- Octane**, detmn. in mixtures from 11-deoxyprostaglandin E_1 production, by g.l.c., 3E33
- Octanoate, perfluoro-**, detection and detmn. in blood plasma, by g.c., 2D103
- Octanoic acid, 8-(2-furyl)-, methyl ester**, identn. in autoxidised fats, by g.c. - m.s., 5F72
- , *perfluoro-*, detmn. of migration of, from polymeric coatings, review, 6F18
- Octan-3-ol**, sepn. of enantiomers of, by g.l.c., comparison of deriv. for, 5D93
- Oct-1-ene**, detmn. in tetraethyl-lead, by g.l.c., 2C72
- sepn. of enantiomers of, by h.p.l.c., 1C18
- Oct-1-ene derivatives**, sepn. of enantiomeric, by h.p.l.c., 1C18
- Oct-1-en-3-ol**, detmn. in mushrooms or mushroom products, by g.l.c., 2F35
- , *1-iodo-*, detmn. in mixtures from 11-deoxyprostaglandin E_1 production, by h.p.l.c., 3E33
- Octonic acid, 3-deoxy-2-oxo-**, detmn. in lipopolysaccharides, spectroph., 2D127
- Odorants**, detmn. in air, by g.c., review, 1H32
- Oestra-4,9-dien-3-one, 17 α -cyanomethyl-17 β -hydroxy-**, detmn. in blood plasma, by r.i.a., 3D70
- 17 α -Oestradiol**, sepn. from other oestrogens and oestrogen acetates, by t.l.c., 2D178
- 17 β -Oestradiol**, detmn. in blood plasma, accuracy and precision of results in, 4D172
- by immunoabsorption - g.c. of bis-TMS ether - m.s., 2D173, 4D175
- by immunoabsorption - g.c. of heptafluorobutyrate - m.s., 2D172
- liquid chrom. - r.i.a., 1D140
- in blood serum, by g.c. of methyl ether acetate deriv. - m.s., 3D185
- in urine, by h.p.l.c. of dansyl deriv., 6D187
- sepn. from other oestrogens and oestrogen acetates, by t.l.c., 2D178
- , *ethynyl-*, detmn. in pharmaceutical preparations, by t.l.c. - u.v. spectroph., 2E27
- fluorim., 1E41
- in pharmaceutical preparations containing megestrol acetate, fluorim., 2E28
- of 17-oxosteroid impurities in, spectropolarim., 1E40
- Oestra-4-en-17 β -ol, 17 α -ethyl-**, detmn., u.v. spectroph., 3E34
- Oestra-1,3,5(10)-trien-17-one, 3-hydroxy-4-methoxy-**, detmn. in urine, by r.i.a., 2D179
- Oestriol**, detmn., by enzyme immunoassay, 4D177
- in blood plasma, accuracy and precision of results in, 4D172
- in blood plasma or blood serum, by h.p.l.c., 4D176
- in blood serum, by g.c. of methyl ether acetate deriv. - m.s., 3D185

Oestriol, determination—continued

- in urine, by h.p.l.c. of dansyl deriv., 6D187
- by hydrolysis using immobilised enzymes - 'boxcar' chrom., 1D141
- sepn. from other oestrogens and oestrogen acetates, by t.l.c., 2D178
- **β -D-glucuronide**, analysis, liquid chrom. - negative-ion chemical-ionisation m.s., 5J52
- Oestrogens**, detmn., by continuous-flow analysis, data-acquisition and cumulative reporting system for, 2D30
- in blood serum, immunoenzymic, 4D174
- extraction from urine, need for drying of final ether extracts in, 5D114
- sepn. of catechol, by h.p.l.c., 2D177
- **acetates**, sepn. from parent compounds and from each other, by t.l.c., 2D178

Oestrone, detmn. in blood plasma, by immunoabsorption - g.c. - m.s., 2D173

- liquid chrom. - r.i.a., 1D140
- in blood serum, by g.c. of heptafluorobutyl deriv. - m.s., 2D70
- by g.c. of methyl ether acetate deriv. - m.s., 3D185
- in urine, by h.p.l.c. of dansyl deriv., 6D187
- sepn. from other oestrogens and oestrogen acetates, by t.l.c., 2D178
- , **4-hydroxy-, 4-methyl ether**, see *Oestra-1,3,5(10)-trien-17-one, 3-hydroxy-4-methoxy-*

Oil-sands, detmn. of elements in fractions of, by solvent extraction - n.a.a., 1C67

Oilseed meals, detmn. of residual hexane in, by head-space g.l.c., 2G6

Olean-12-en-28-oic acid, 22 β (Z)-22-(2-methyl-1-oxobut-2-enyloxy)-3-oxo-, see *Lantadene A*

Oleanolic acid, detmn. in *Patrinia intermedia* extracts, potentiom., as indication of patriniside content, 5E17

Olefins, see *Alkenes*

Oleic acid, detmn., potentiom., with Ca^{2+} -selective electrode, 4A18

in magnetic powders, potentiom., 1C125

sepn. of geometrical isomers of, by h.p.l.c. of naphthacyl or phenacyl deriv., 1C28

2',5'-Oligoadenylate phosphodiesterase, see under *Enzymes, specific*

Olive oil, analysis of sterols in, by t.l.c. or by t.l.c. - g.l.c., 4F74

detection of adulteration of, by g.c. of fatty acid methyl esters, 5F71

of aflatoxin A₁ and ochratoxin A in, by t.l.c., 4F75

of re-esterified oils in, by argentation t.l.c., 4F73

sepn. of triglycerides in, liquid chrom., 4F71

Olives, identn. and detmn. of mannitol and sugars in, paper chrom., 4F52

Oltipraz, detection, by h.p.l.c., 6C46

Onion oil, analysis, by g.l.c., 6F48

Onions, detmn. of Mn in, by kinetic - fluorim. method, 1F5

of Se in, comparison of methods for, 5F49

Opium, analysis, changes in Ital. P. methods for, 5E11

detmn. of morphine in, or in its preparations, comparison of methods for, and recommended purification procedure, 4E8

Opium alkaloids, detmn. in urine, interference by pholcodine in immunoassay for, 6D52

Optical brighteners, detmn., with AMICA automatic analyser, 6J16

in presence of humic acids and ligninsulphonates, fluorim., 6A17

of *cis-trans* isomer ratio in stilbene-type, spectroph., 3C95

Optical fibres, characterisation of blanks for, by γ -irradiation - spectrom., 5B187

detmn. of ultra-trace elements in, by a.a.s., 5B157

Orange juice, analysis of carbonyl compounds in condensate from concn. of sweet, by t.l.c. of dinitrophenylhydrazones, 2F42

detection of pulp-wash adulteration of, by h.p.l.c. detmn. of Na benzoate, 1F42

detmn. of citrate in, by h.p.l.c. or isotachopheresis, 1F41

of elements in, by a.e.s., 2J110

of sugars in, by h.p.l.c., 4F8

of SO₂ in head-space of, by g.c., 5F67

sepn. and detmn. of fructose, glucose and sucrose in, by h.p.l.c., 1F33

Orange oil, analysis of volatile components of sweet, by g.l.c. or by t.l.c. of dinitrophenylhydrazones, 2F43

sepn. of polymethoxylated flavones in, by h.p.l.c., 5F12

Oranges, detmn. of benzoximate in peel or pulp of, by h.p.l.c., 2G14

of 1,2-dibromoethane in, by g.c., with clean-up using H₂SO₄, 1G35

Orciprenaline sulphate, detmn., spectroph., 4E4

Ores, see under *Minerals, ores and rocks*

Organic analysis, 2C131B

analysis of non-volatile hazardous, by g.c. - m.s., 1C2

applications of computers in identn. of complex, 6C1

classification, i.r. spectrom., with use of pattern recognition and information theory, 6C3

detmn., by t.l.c. - densitom., 4C2

of desorption efficiencies of, in 3M 3500 Organic Vapour Monitor, 1C4

of ratio formulae for, emission spectrom., 5C6

of purity of, differential scanning calorim., 1C38

of residue content of liquid, BSI method for, 5C4

identn., definition of matching criteria in, 6C2

multi-wavelength-selective ionisation of, in ion-mobility spectrometer, 6C4

Organic elementary analysis, automatic sampler for use in, with closed de-aeration chamber, 1J1

by O combustion - g.c., 5C5

detmn. of Sb or As, by alkali fusion - iodim., 6C6

Organic elementary analysis, determination—continued

of Br, Cl and I, by O-flask combustion - potentiom., evaluation of equiv.-points in, 4A17

with S²⁻-selective electrode, 1C15

of Br, Cl or I, by Schoniger combustion - fluorim., 4C9

of C, H and N, by combustion - g.c., and of O, by pyrolysis - g.c., precision of calibration factors in, 3C6

of C, H and N in organofluorine compounds, semi-automated, 3C7

of C, H, N and O, by pyrolytic sulphurisation g.c., with use of centimilligram samples, 2C4

of C, H, N and O in metal org. chelate compounds, by pyrolytic sulphurisation g.c., 2C5

of Cu, by Schoniger combustion - potentiom., with ion-selective electrode, 3C13

of F, by Schoniger combustion - potentiom., with ion-selective electrode, 2C6, 3C9

of halogens, improved O-flask combustion procedure for, 4C8

of I and S, by Schoniger combustion - titrim., 3C8

of N, by gas-phase catalytic hydrogenolysis, effects of hetero-elements on life of catalysts used in, 3C11

interferences in, 3C10

of N in amines, colorim., with use of Se catalyst, 6C5

of N in organophosphorus compounds, by modified Unterzaucher method, 3C12

emission spectrom., 5C6

reference material for use in, 2C3

Organometallic compounds, analysis, i.r. spectrom., preparation of easily oxidised or deliquescent samples for, 4C26

of thermally unstable peroxides and of low-volatility polycyclic, by h.p.l.c., 2C42

detmn. of F in, by Schoniger combustion - potentiom., with ion-selective electrode, 3C9

Orichalcum, detmn. of Zn in ancient artefacts of, by n.a.a., 6B39

Oridazole, detmn. in blood plasma, with its metabolites, by h.p.l.c., 5D73

Ornithine, detmn. in blood plasma, effect of sampling site in, 3D209

Orosomucoid, detmn. in seminal plasma, immunonephelom., 4D241

Orotic acid, detmn. in blood plasma or urine, by h.p.l.c., 6D262

Orotidine, detmn. in blood plasma or urine, by h.p.l.c., 6D262

Orphenadrine, detmn. in blood, stomach contents or urine, by g.l.c., 4D112

Orris, detmn. of biphenyl and biphenyl-2-ol in, by t.l.c. - u.v. spectroph., 1E52

Oryzalin, sepn. from related herbicides, by g.c., 1G29

Osmium, detmn., by catalytic - spectroph. method, 5B24

by charged-particle activation, 3B12

by kinetic - amperom. method, improvement of selectivity in, 4B201

by luminescence in crystalline phosphors, 5B169

emission spectrom., 1J129

extraction method for, 6B24

spectroph., 3B161, 5B168, 6B170

with extraction into molten naphthalene, 4B132

in presence of other platinum-group metals and Au, photom., 5B160

sorption of, by polymeric thioether, 5B159

Osmium, reagents for, 3-hydroxy-2-methyl-1,4-naphthaquinone monoxime, 6B170

N-hydroxymethylthiourea, 5B168

4-(2-pyridylazo)resorcinol, 3B161

quinolin-8-ol, 4B132

4,4,6-trimethyl-1-(2-nitro-p-*tolyl*)pyrimidine-2-thiol, 5B160

Osmium complexes, sepn. of mixed bromochloro-, by h.p.l.c., 5B170

Ovalbumin, detmn., potentiom., with Ag⁺-selective electrode, 6D233

isolation, by h.p.l.c., 3D251

sepn. from other proteins, by h.p.l.c., 5D157

from trypsin inhibitor, ion-exchange chrom., 3D235

Oxacillin, detmn. in presence of ampicillin, spectroph., 6E26

1,2,4-Oxadiazin-5-one, 2-acetyl-3-phenyltetrahydro-, detmn., spectroph., 6E3

Oxalate, detmn., indirect spectroph., 3C32

permanganatim., in presence of catalyst, 2C33

in beer or wort, ion-exchange chrom. - spectroph., 6F64

in black liquor, ion chrom., 2C103

in renal calculi, i.r. spectros., 2D18

in urine, by g.c., reduction of oxalogenesis in, 6D161

by h.p.l.c. of 9-anthrylmethyl ester, 2D141

by isotope dilution - indirect colorim., 1D122

continuous-flow enzymic - spectroph., 2D143

enzymic - colorim., 4D151

enzymic - conductom., 5D102

ion chrom., 2D142

Oxalic acid, detmn., permanganatim., in presence of catalyst, 2C33

potentiom., with Ca²⁺-selective electrode, 4A18

voltamm., 4D150

in coffee, by isotachopheresis, 3F42

in lactic acid-fermented vegetables, by h.p.l.c., 5F51

in sugar-refinery products, by g.l.c. of butyl ester, 4F21

of Cu, Pb and Zn in, anodic-stripping voltamm., 5B10

— **calcium salt**, detmn. in urinary calculi, inter-laboratory study of, 1D21

Oxaloacetic acid, sepn. from other org. acids, anion chrom., 2C29

Oxamide, dithio-, detmn., spectroph., 5C7
Oxamimidic acid, N-hydroxy-N'-dimethyl-1-thio-, methyl ester, detmn. in peach seeds or seedlings or in soil, by h.p.l.c., 1G37
Oxamyl, detmn. in peach seeds or seedlings or in soil, with its oxime, by h.p.l.c., 1G37
Oxazepam, analytical data for, 4E42
 detmn. in urine, by g.l.c. of corresponding benzophenone, 1D72
 sepn. from related compounds, by h.p.l.c., 1D71, 6E41
Oxazolam, detection in urine, by t.l.c., 4D96
Oxazole derivatives, identn. in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
Oxazolidine-5-carboxylic acid, 3-(3,5-dichlorophenyl)-5-methyl-1,2,4-dioxo-, ethyl ester, see *Dichlozoline*
Oxazolidine-2,4-dione, 5,5-dimethyl-, detmn. in blood plasma, by g.l.c., 3D80
Oxazolidin-2-one, 5-hydroxymethyl-3-m-tolyl-, see *Toloxatone*
Oxazoline derivatives, identn. in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
Oxcarbazepine, detmn. in blood plasma or blood serum, by h.p.l.c., 6D76
Oxfenicine, detmn. of enantiomeric purity of, by h.p.l.c. of diastereoisomeric amides, 2E54
Oxides, detmn. of O in, with use of pulsed heating, 1B128
Oxirane, detmn. in air, by g.c., 2H28
Oxirane derivatives, characterisation of adducts with fatty alcohols of, by h.p.l.c., 5C80
 detmn., fluorim., 4C11
Oxmetidine, detmn. in bile, blood plasma or urine, with its metabolites, comparison of h.p.l.c. methods for, 5D69
Oxolinic acid, detmn. in fish tissues, by h.p.l.c., 4F38
Oxprenolol, detmn. in blood, blood plasma or urine, with its metabolites, by isotope dilution - h.p.l.c., 4D110
 of enantiomers of, in biol. fluids, by isotope dilution - h.p.l.c., 4D111
 sepn. of enantiomers of, by h.p.l.c., 1E63
Oxychordane, detmn. in human milk, by g.l.c., 5D84
Oxydilin, detmn., fluorim., 6E53
Oxygen, see also *Ozone*
 detmn., bacterial sensor for, 4J132
 by n.a.a., application of on-line laboratory computer analysis in, 5A4C
 in air, semiconducting sensor for, 3J8
 with use of electrochem. sensors, 1J8
 in aluminium, selectivity of dissolution method for, 1B73
 in aluminium alloys, by n.a.a., 6B61
 in argon, coulom., 4B23
 in gas mixtures, membrane electrode for, 2J171
 in gas mixtures with N₂O, with use of sandwich electrode, 1J193
 in helium, by time-of-flight m.s., 5J7
 in liquid ammonia, by g.c., 3B101
 in liquid sodium, review of electrochem. techniques for, 3B23
 in org. compounds, see under *Organic elementary analysis*
 in oxides, with use of pulsed heating, 1B128
 in products of oxychlorination of ethylene, by g.c., 3C18
 in silicon, by He fusion - g.c., 2B90
 by n.a.a., 6B139
 calibration of optical method for, 6B90
 in solvents, amperom., 5B124
 in steel melts, design of probes for, 6B153
 in uranium oxides, gravim., 4B98
 in vacuum system, by m.s., 3J7
 of distribution of, in Ti(C,N,O), by secondary-ion m.s., 3B4
 of erythrocyte, effect of perfluorochemical emulsion on performance of CO-Oximeter for, 2D57
 of isotopes of, in silicate minerals, use of ClF₃ for O extraction in, 2B93
 of N₂ - O₂ ratio in air, by Raman scattering, 2H18
 of pO₂, with solid-state-electrolyte miniaturised sensor, 3J140
 in blood, comparison of control materials for, 3D21
 with miniature FET sensor, 2J162
 of ¹⁸O in atmospheric water vapour, by m.s., 1H14
 of δ¹⁸O in reference materials, by m.s. of CO₂, 2B121
 in water, sample preparation for, 3H64
 of O-to-U ratio in uranium oxides, polarogr. - amperom., 2B78
 on silicon, by deuterium activation, 3B89
 electrochem. and kinetic study of, in perfluorotributylamine emulsion, 4E88
 —, **dissolved**, detmn., by flow-injection - enzymic - spectroph. method, 1B127
 in diesel fractions, by g.c., 4C56
 in silicone fluids, by g.s.c., 2C126
 in waste water, portable test kit for, 2H93
 in water, by g.c., 3H46
 by quenching of after-glow of hydrophobic adsorbates, 1H67
 interference in N₃⁻-modified Winkler method for, 5H73
Oxygen compounds, detmn. in air, by reaction g.c., 5H30
Oxyhaemoglobin, detmn., effect of perfluorochemical emulsion on performance of CO-Oximeter for, 2D57
Oxyldine, see *Benzoclidine*
Oxymetazoline hydrochloride, detmn., spectroph., 4E4
 in pharmaceutical preparations, spectroph., 1E64
Oxymyoglobin, detmn. in meat, spectroph., 1F22

Oxypertine, detmn. in blood serum, by h.p.l.c., 3D93, 6D89
Oxypurinol, detmn. in blood plasma or urine, by h.p.l.c., 6D262
Oxytetracycline, detmn. in blood or milk, by agar-diffusion test, 6F41
Oxytocin, detection, by h.p.l.c. - electrochem., 6D220
Oysters, detmn. of elements in, by n.a.a., after liquid-chrom. removal of Na, 1D25
 of Pb in, by Zeeman a.s.s., 1D42
 PIXE study of shells of living, 5A4C
Ozone, detmn. in air, apparatus for continuous, 2H17
 review, 4H14
 spectroph., 3H20
 in gas mixtures, solid-state sensor for, 2J173

P

PAM-2-Cl, see *Pralidoxime chloride*

Packaging materials, detmn. of Th and U in plastic, by secondary-ion m.s., 1B204
 for foods, detmn. of migration of components of, use of correlations in, 1F13

of morpholine and its 4-nitroso-deriv. in paper or paperboard, by g.c. - thermal energy analysis, 4F18

Paints, see also *Lacquers; Pigments*

automatic balance for monitoring changes in wt. of films of, 6J4

characterisation, by pyrolysis - capillary g.c., 6C86

detmn. of solvent vapours from, in air, by g.l.c., 5H42

external integrating sphere for use in colour matching of, 5J96

identn. and detmn. of solvent components in, by computer-aided g.c., 2C124

pyrolysis - g.c. study of, 1C122

sepn. of anions in resins for, 6J24

thermal degradation of automobile, 2A4C

Palladium, concn., on inorg. electron-exchange materials, 5B167

on Polyorgs V, 1B27

detection, colour reactions for, 1B26, 2B12, 4A10

detmn., amperom., 4B199, 6B175

by a.s.s., 1B188, 5B158

by charged-particle activation, 3B12

by kinetic - fluorim. method, 4B18

coulom., 4B198

emission spectrom., extraction method for, 6B24

gravim., 3B37

non-aq. titrim., with thionalide, 5B162, 5B163

photom., 2B19

polarogr., 5B18

spectrogr., with pre-concn. by ion exchange, 5B37

spectroph., 1B13, 1B181, 1B182, 2B163, 3A9, 3B158, 4B196,

4B197, 5B164, 6B171, 6B172, 6B173, 6B174

with collection of pyrrolidine-1-carbodithioate in molten naphthalene, 1B183

with use of azo-compounds, review, 1A11

in aluminium oxide carrier after extraction of noble metal from used catalyst, 6B192

in catalysts, by XRF with 'direct' β-excitation, 3B174

in copper, by a.s.s., 1B41

in Cu - Ni matte, spectroph., 3B159

in industrial objects, spectroph., with colour reaction on ion-exchange resin, 1B184

in minerals, ores or rocks, by a.s.s., after pre-concn. with zephiramine, 4B48

in nuclear wastes, ICP emission - fluorescence spectrom., 3B160

in palladium-plating electrolytes, photom., 5B165

in polymer-supported catalysts, by a.s.s., 1B203

in presence of Cu and Zn, by h.p.l.c. of porphyrin complexes, 2B8

of Au, Ir, Pt and Rh, spectroph., 2B20

of other platinum-group metals and Au, photom., 5B160

of other precious metals, by a.s.s., 4B22

in solvent metal or wastes, by a.e.s. or a.e.s. - XRF, 6B78

in sweeps, 1B15

in wastes containing noble metals, spectroph., 2B164

in water, by a.s.s., with pre-concn. on thionalide-loaded silica gel, 4H64

of H distribution in, electrochem., 2B23

ion-exchange study of, 6B14

sepn. from Bi and Ir, by t.l.c., 1B6

from Au, Ir and Pt, ion-exchange chrom., 1B189

from other elements, by t.l.c., 1B23

from Pt, by extraction with polyurethan foam, 6B179

solvent extraction of, as chloro-complex, with alcohols, 5B166

with simple and multi-dentate thioethers, 6B176

sorption of, by polymeric thioether, 5B159

Palladium, reagents for, biacetyl monoxime 2-pyridylhydrazone, 6B174

1,5-bis(di-2-pyridylmethylene)thiocarbonylhydrazide, 4A10

3-(5-bromo-2-pyridylazo)chromotropic acid, 3A9

bromopyrogallol red - Septonex, 2B164, 4B196

catechol violet, 4B196

catechol violet - Septonex, 4B196

chlorsulphophenol S, 1B181

Palladium, reagents for—continued

- Chrom. Azurol S, 1B13
collidine (or 2-picoline or piperidine or quinoline) - dithio-oxamide, 1B182
3',5'-dichloro-2'-hydroxyacetophenone oxime, 2B163
5-diethylamino-2-(2-thiazolylazo)phenol, 1B184
5-(*p*-dimethylaminobenzylidene)-2-thiohydantoin, 2B19
Eriochrome Azurol B - hexadecyltrimethylammonium bromide, 6B172
ferrocene, 3B37
fural α -dioxime, 2B20
hexadecylpyridinium bromide - pyrogallol red, 4B197
I⁻ - pyronine G, 6B171
NN'-pentane-2,4-diylidenebis-(2-aminobenzenethiol), 3B158
picolinaldehyde amidinohydrazone, 5B164
2-pyridyl 2-thienyl (Z)-ketoxime, 3B159
pyrrolidine-1-carboxithioic acid, 1B183
thiodibenzoylmethane, 6B173
thiophene-2-carboxaldehyde 2-quinolylhydrazone, 2B12
thiosemicarbazones of hydroxybenzophenones, 1B26
4,4,6-trimethyl-1-(2-nitro-*p*-tolyl)pyrimidine-2-thiol, 5B160
- Palladium alloys, Pd - Au**, analysis of surfaces of, Auger-electron spectrom., 2B7
—, Pd - Ag, detmn. of Pd and Ag in, gravim., 3B37
- Palladium complexes**, with bromobenzothiazolylazo-dyes, 4A9
with catechol violet and hexadecyltrimethylammonium ions, 5B9
with 1,2,4-trihydroxyanthraquinone-3-carboxylic acid, 5A16
- Palm**, analysis of amino-acids in leaves or phloem exudate from, by t.l.c. of dansyl deriv., 4D212
- Palm oil**, detection of adulteration of, by g.l.c., 2F63
sepn. of triglycerides in, liquid chrom., 4F71
- Palmitine, tetrahydro-**, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
- Palmitic acid**, detmn., potentiom., with Ca²⁺-selective electrode, 4A18
in lipids, by t.l.c. - reflectance densitom., 1D129
— propyl ester, detmn. in lipids, by t.l.c. - reflectance densitom., 1D129
- Pancratic juice**, detmn. of Ca in, with Corning 940 titrator, 4D27
- Pantothenic acid calcium salt**, detmn. in dimethyl sulphoxide medium, titrim., 5E4
- Pantothenol**, see *Dexpanthenol*
- Papain**, see under *Enzymes, specific*
- Papaver spp.**, detmn. of morphine in extracts of, by t.l.c., comparison of densitometers for, 3E11
extraction of alkaloids from flowers of, 1E17
sepn. of alkaloids of, by h.p.l.c., 2E6
- Papaverine**, detection in opium, by t.l.c., 5E11
detmn., by spectroph. titration or spectroph., 3E13
in presence of benzadol, phenobarbitone and theobromine, by h.p.l.c., 1E8
of noscapine, non-aq. titrim., 3E12
sepn. from other opium alkaloids, by h.p.l.c., 1E18, 2E6
- **hydrochloride**, detmn. in pharmaceutical preparations, cerim., 5E13
in Sereiskii mixture powder, titrim., 6E11
sepn. from diprophylline and KI, by t.l.c., 1E10
- Papaveroline, tetrahydro-**, detmn., by h.p.l.c., 2E16
- Paper**, detmn. of As in additives for, by a.a.s., 3C102
of elements in, by m.s., 4C75
of morpholine and its 4-nitroso-deriv. in food-packaging, by g.c. - thermal energy analysis, 4F18
of silicone fluid in photocopy, emission spectrom., 3J82
of total extractable resin in, accuracy of TAPPI method for, 3C101
d.s.c. studies of impregnants for, and for saturated papers, review, 1C121
- , **liquors from**, analysis, by g.c. - m.s., 2C104
characterisation of pulping or bleaching process, ion chrom., 2C103
detmn. of SO₄²⁻ in black, potentiom., with Pb²⁺-selective electrode, 6C75
- Paper pulp**, analysis, by g.c. - m.s., 2C104
of carbohydrates in hydrolysates of, by g.c., 2C100
detmn. of anthraquinone in, by h.p.l.c., 5C77
- Paperboard**, detmn. of morpholine and its 4-nitroso-deriv. in food-packaging, by g.c. - thermal energy analysis, 4F18
of pentachlorophenol in, by g.l.c. of acetate, 1C97
of total extractable resin in, accuracy of TAPPI method for, 3C101
- Paprika**, detmn. of ascorbic acid in, by t.l.c. - reflectance spectroph., 3F11
of colours in, comparison of methods for, 1F36
of ethoxyquin in, by t.l.c. - fluorim., 6F51
- Paracetamol**, detection in urine, by t.l.c., 5D49
detection and detmn. in blood, by h.p.l.c., 3D94
detmn., colorim., 4E3
elimination of salicylate interference in, 3D83
interference by salicylate in, 3D82, 6D81
in blood *in vivo* and *in vitro*, differential pulse voltamm., 2J185
in blood plasma, by manual colorim. and kit methods, 4D20
in blood serum, spectroph., 2D82
in cough mixture, by h.p.l.c., 3E74
in drug mixtures, by h.p.l.c. - m.s., 2C127
in pharmaceutical preparations, by automated g.c. - m.s., 2G12
of metabolite of, by g.l.c., 6D82
identn. in analgesic preparations, by t.l.c., 3E42
- Paraffins**, see *Alkanes*
- Paraaxon**, detmn., by r.i.a., antiserum for, 6D144
- Paraproteins**, detection, by immunofixation on cellulose acetate, 2D247
- Parquat**, detection in water, fluorim., 3H82
detmn. in urine, by h.p.l.c., 1D113
in water, by h.p.l.c., 5H93
- Parathion**, detmn., colorim., 4G17
inter-laboratory study of, 5G25
- Parathyroid hormone**, detmn., by r.i.a., 3D232
- Paraxanthine**, detmn. in biol. fluids, by h.p.l.c., 5D29
- Particle accelerators**, report of conference on applications in research and industry of, 5A4
- Particle counting**, of condensation nuclei, calibration of auto-ranging counter for, 3J159
- Particle size analysis**, by light scattering, design and construction of analyser for, 6J174
by microscopy, review, 3J155
by sedimentation field-flow fractionation at high force fields, 1J200
by transient electric birefringence, 3J160
of colloidal systems, turbidim., 6J175
of droplets within aerosols, with cascade impactor, 1J201
of foods, by laser-light scattering, 4F2
of particles in high-velocity multi-phase flows, system for, 3J158
of suspensions, by light back-scattering method, 3J157
report of conference on, 5A5
review, 4J145
sample collection for, review, 6J173
with photoelectric colorimeter, 3J156
- Particles**, analysis, by microbeam methods, 1A1C
morphology-dependent Raman spectra from micro-, 1A1C
problems in computerised analysis of large numbers of small, 1A1C
- Parvalbumins**, isolation, by h.p.l.c., 3D248
- Passion flower**, identn. and detmn. of flavonoids in preparations of, comparison of methods for, 3E19
- Pasta**, see *Alimentary pastes*
- Patrinoides**, detmn. in *Patrinia intermedia* extracts, by potentiom. detmn. of aglycone, 5E17
- Patulin**, detmn. in apple products, by g.c. of TMS ether - m.s., 6F46
in mouldy foods, by t.l.c., 2F18
sepn. from 5-(hydroxymethyl)-2-furaldehyde in vegetable extracts, by h.p.l.c., 3F41
- Peaches**, detmn. of oxamyl and its oxime in seeds or seedlings of, by h.p.l.c., 1G37
- Peanut butter**, detmn. of D-amino-acids in, by g.l.c. of N-pentafluoropropionyl deriv. of isopropyl esters, 1F7
- Peanut oil**, detection of adulteration of, by g.l.c., 2F63
sepn. of triglycerides in, liquid chrom., 4F71
- Peanuts**, characterisation of peptides in hydrolysate of protein of, by ultra-thin-layer isoelectric focusing, 5F10
detection of aflatoxins in cake of, mini-column method for, 6F27
detmn. of aflatoxin B₁ in, by t.l.c. - densitom., 6F11
of D-amino-acids in, by g.l.c. of N-pentafluoropropionyl deriv. of isopropyl esters, 1F7
- Pears**, detmn. of dithiocarbamate fungicides in, by h.p.l.c., 3G37
of organochlorine and organophosphorus pesticides in, by g.l.c., 2G11
- Peas**, detmn. of Cu speciation in, 1F3
of element speciation, in review of sepn. procedures used for, 6F2
of homoserine and its lactone in seedlings of, spectroph., 2G1
- Pectinesterase**, see under *Enzymes, specific*
- Pectins**, analysis of oligogalacturonic acids in hydrolysate of, by h.p.l.c., 2J44
detmn. of methoxy-groups in, comparison of methods for, 6F22
Pefloxacin, detmn. in blood plasma or urine, with its metabolites, by h.p.l.c., 3D116
- Pegmatite**, detmn. of U in, deriv. oscillogpolarogr., 2B72
- Pencycuron**, identn. and detmn. of metabolites of, in faeces or urine, by g.c. of methyl deriv. - m.s. and g.l.c., 1D110
- Pendimethalin**, sepn. from related herbicides, by g.c., 1G29
- Penem-3-carboxylic acid**, 5R,6S,8R-2-ethylthio-6-(1-hydroxyethyl)-, detmn. in blood serum, by h.p.l.c., 4D63
- Penfluridol**, detmn. in urine, by g.c. of acetyl deriv. - m.s., 3D91
- Penicillamine**, detmn. in blood, by h.p.l.c., 2D102
in blood plasma, by h.p.l.c., 6D128
in pharmaceutical preparations, spectroph., 1E9, 3E73
in presence of other mercapto-compounds, by h.p.l.c. of N-(anilino-phenyl)maleimide adducts, 4A8
sepn. from other thiols, gel electroph., 5D4
- **disulphide**, detmn. in blood plasma, by h.p.l.c., 6D128
- Penicillanic acid**, 6-amino-, detmn., titrim., 1E36
- Penicillic acid**, detmn. in mouldy foods, by t.l.c., 2F18
- Penicillin**, benzyl-, detection in antibiotic injections, by t.l.c., 1E38
detmn., cathodic-stripping voltamm., 2E23
- , **salts**, sepn. and detmn., by h.p.l.c., 6E25
- , **phenoxymethyl-**, analysis of fermentation mixtures for production of, by t.l.c. - spectroph., 6E24
detmn., cathodic-stripping voltamm., 2E23
in pharmaceutical preparations, polarogr., 1E33
- Penicillin acylase**, see under *Enzymes, specific*
- Penicillins**, detmn., by h.p.l.c., 4E2
ISFET sensors for, 1J189

Penicillins—continued

- identn., by tandem m.s., 3E21
m.s. and liquid chrom. - m.s. studies of, and of their salts and methyl esters, 2E21
sepn. and detmn. in presence of cephalosporins, by h.p.l.c. - fluorim., 2E20
use of t.l.c. in process control of fermentations for production of, 5A2C
— **sodium salts**, analysis, differential scanning calorim. and thermogravim., 5E19
Peroxylazir hydrochloride, differentiation of enantiotropic modifications of, i.r. spectrom., 3E8
Pentacaine, detmn., by g.l.c. of methyl deriv., 6E45
Pentadec-1-en-3-ol, 3,7,11-trimethyl-, detmn. in presence of related compounds, by g.c., 3C96
Penta-1,4-diene, sepn. of enantiomers of, by h.p.l.c., 1C18
Pentaerythritol tetrakis-3-(3,5-di-*t*-butyl-4-hydroxyphenyl)propionate, analysis of products of synthesis of, by t.l.c. - densitom., 1C117
— **tetranitrate**, detmn. in blood plasma, by h.p.l.c., 3D105
in pharmaceutical preparations, by h.p.l.c., 3E54
in presence of other explosives, by g.c., 2C128
sampling of, from water, evaluation of sorbents for, 5H88
Pentane, 2,2,4-trimethyl-, detmn. of Pb in, by a.a.s., 4C51
Pentanedione, detmn. in beer, by head-space g.c., 2F51
Pentan-1-ol, detmn. in whisky, by g.l.c., 4F63
Pentan-2-one, 4-methyl-, detmn. of trace elements in, emission spectrom., 3J82
Pentathionate, detmn. in presence of other sulphur anions, by h.p.l.c., 6B125
Pentazocine, detmn. in urine, by g.c. - m.s., 2D83
Pentobarbitalone, detection in post-mortem blood, by g.l.c., 1D62
detmn. in blood serum, by g.c., 4D85
— **sodium**, detmn. in dimethyl sulphoxide medium, titrim., 5E4
Pentosans, analysis of rye, gel chrom., 1F15
Pentoses, detmn. in fermentation soln., by g.c., 3D146
Pentylamine, detmn. in presence of other primary amines, by h.p.l.c. of phthalaldehyde deriv., 5C21
Pepper, detmn. of ethoxyquin in, by t.l.c. - fluorim., 6F51
Peppermint oil, analysis, by g.c. - FT i.r. spectrom. - m.s., 1J90
detmn. of menthofuran, menthol, menthone and menthyl acetate in, by g.c., 2F6
of pulegone in, by t.l.c. - densitom., 6C70
Pepsin, see under *Enzymes, specific*
Pepsinogen, detmn., turbidim., comparison of sensitivities of methods for, 2D243
Peptides, see also *Glycopeptides; Neuropeptides; Polypeptides*
analysis, by fast-atom-bombardment m.s., 5D148, 6A7C
by g.c. - m.s., comparison of deriv. for, 2D227
by h.p.l.c., 5D146
by h.p.l.c. of *N*-trinitrophenyl deriv., 4D208
by t.l.c., recovery of material from plates for, 4D213
gel electroph. - electro-blotting, contrast enhancement and protection of electro-blot in, 5J69
of cyclic, by fast-atom bombardment - triple-analyser m.s., 3D224
of di-, by reversed-phase h.p.l.c., choice of buffer for, 4D207
of invertebrate neuro-, by h.p.l.c., 5D147
of urinary, by h.p.l.c., 4D226
characterisation, by ultra-thin-layer isoelectric focusing, 5F10
detection in chrom. eluates, fluorim., 1D184
of amino-acid substitutions or modifications in, by r.i.a., 4D230
of tyrosine-related, by h.p.l.c. - electrochem., 6D220
detmn. in saké, colorim., 4F62
of Val-Gly-Ser-Glu and Ala-Gly-Ser-Glu, by g.c., as TMS ethers of *N*-(2,2,2-trifluoroethylated) aminoalcohols - m.s., 2D228
fast-atom-bombardment m.s. study of, 3D12
FT m.s. studies of, review, 3D223
g.c. - fast-atom-bombardment m.s. studies of, 3J58
h.p.l.c. studies of, review, 1D183
identn. and detmn. of neuro-, in enteric nervous tissue, review, 1D181
labelling and h.p.l.c. purification of hormonal, 6A2C
mapping of, gel electroph. - enzymic hydrolysis - gel electroph., 3D238
secondary-ion m.s. study of, 3D13
sepn., by h.p.l.c., 3D220
by reversed-phase h.p.l.c., review, 4D225
liquid chrom., review of FPLC technique for, 1D190
of α - and β -isomers of aspartyl, by h.p.l.c., 4D228
sepn. and detmn., gel electroph., optical comparator system for use in, 4D238
sepn. and identn., by h.p.l.c. of dimethylaminoazobenzenethiocarbamoyl deriv. - field-desorption m.s., 2D226
Peptidaminobenzophenone, see *Glycinamide, N-[4-chloro-2-(2-chlorobenzoyl)]-N-methylglycyl-*
Perchlorate, detmn., fluorim., 5B138
potentiom., comparison of sensors for, 3J150
ion-selective electrode for, 4J133
spectroph., 4B150
sepn. from other anions, by isotachopheresis, 3J45
Perchloric acid, detmn., potentiom., use of sulphur nitride electrode for, 2J166
Perfume products, analysis, by 'enfleurage' h.p.l.c., 4J17
by head-space g.c., 4C69

Perfume products, analysis—continued

- by m.s., automated, 2C91
of raw materials for cosmetics, review, 6C71
detmn. of saffrole in, by h.p.l.c., 1C94
Perhexiline, detmn. in blood plasma, by g.l.c., 6D112
Perhydroxyl radicals, detmn. in air, by catalytic - chemiluminescence method, 1H21
Pericase, detmn. of Al, B, Ca, Fe and Fe in, spectrogr., 2B166
Permethrin, detmn. in soil or water, by g.c., 6G35
of *cis*- and *trans*-, in lettuce, by h.p.l.c., 6G38
Peroxidase, see under *Enzymes, specific*
Peroxides, organic, analysis of products of thermal decomposition of hydroperoxy cyclic, by g.c. - m.s., 5F72
—, **benzoyl**, detmn. in polymers or resins, by chemiluminescence method, 2C111
—, **organometallic**, analysis of thermally unstable, by h.p.l.c., 2C42
Peroxy-acids, detmn. in soln. containing H₂O₂, 6B26
Peroxydisulphuric acid, detmn. in presence of H₂O₂ and HSO₃, by thermom. titration, 4B28
Peroxymonosulphuric acid, detmn. in presence of H₂O₂ and H₂S₂O₈, by thermom. titration, 4B28
Peroxy-radicals, see *Perhydroxyl radicals*
Perphenazine, detmn., titrim., 6E38
in blood serum, with its metabolite, by h.p.l.c., 6D91
Persulphate, detmn., gravim., 2B17
Pertechnetate, detmn. in eluate from ⁹⁹Mo - ^{99m}Tc generator, by h.p.l.c., 4B157
Perylene, detection in h.p.l.c. eluates, by chemiluminescence method, 5C45
Pesticides, see also *Herbicides*
analysis, by chromat. - a.a.s., 2J74
by two-dimensional t.l.c., review, 5J74
inter-laboratory study of, 5G25
review, 4A2
in water, 3H104B
of bio-degradation products of, by g.c. - FT i.r. spectrom., 6G33
of residues of, by g.l.c., isolation and clean-up methods for, 6G36
review, 5G26
detmn., phosphorim., 3J88
with their metabolites, by h.p.l.c., 1G24
in air, by h.p.l.c., 1H42
colorim., 2A2C
in foods, by h.p.l.c., 4F17
in low-moisture, non-fatty products, by g.c., recovery procedure for, 2G13
in paper-mill waste water, by g.c. - m.s., 3H99
of cyclodiene, in presence of PCBs, by g.c. by photo-isomerisation reactions, 2A2C
extraction from soil, by supercritical gases, 3G15
h.p.l.c. of, 2G22B
identn. and detmn. in feeding-stuffs or foods, by g.c. - m.s., review, 5F19
interactions of, with non-ionic tensides and amino-acids, 5A2C
sampling of, from air, sorbents for, 4H28
—, **carbamate**, detmn. in rice, by g.l.c., 6G37
in soil or water, by h.p.l.c., 5G37
of oxime, in soil or water, by h.p.l.c., 5G38
—, **organochlorine**, detmn. in agricultural products, by g.l.c., 2G11
in biol. materials, by g.c., sample preparation for, 6A5C
in blood, by g.c. - m.s., 1D111
in fish tissues, by g.l.c., 5F40
in human milk, by g.l.c., 5D84
in municipal sludge, by h.p.l.c. - g.l.c., 3H94
in waste water, by g.c., 2H108
in water, by g.l.c., 5H92
sorption capacities of graphitised carbon black used in, 4H86
g.c. - m.s. and g.c. - triple quadrupole m.s. studies of, 3H5
h.p.l.c. study of, 1J54
identn. and detmn. in fish or meat, liquid chrom. - g.c., 2F21
sepn. from PCB, liquid chrom., 4G18
—, **organophosphorus**, detection in fruit or vegetables, by t.l.c. with cholinesterase-inhibition detection, 1G33
detmn., by g.l.c., 1G34
in agricultural products, by g.l.c., 2G11
identn. in water, by g.l.c. - t.l.c., 4H87
sepn. and detmn. in foods, by two-dimensional g.c., 5F20
Petasites japonicus, sepn. and detmn. of macrocyclic pyrrolizidine alkaloids in, by h.p.l.c., 2E14
Pethidine, detmn. in blood plasma, by g.l.c. of carbamate deriv., 6D78
Petrol, see *Gasoline*
Petroleum, analysis, 6C91B
by g.c., review, 1J67
by h.p.l.c. - refractom., problems arising in, 5C53
review, 4A2
of asphaltic fractions of, gel chrom. - n.m.r., 5C59
of polycyclic aromatic compounds in crude, by g.c. - g.c. - m.s., 1C70
of spill samples, applications of luminescence techniques in, review, 1H81
of vanadylporphyrins in crude, by g.l.c. or g.l.c. - m.s., 1C68

Petroleum—continued

- characterisation of crude, in sea-water, by g.c. - m.s. and fluorim., 5H90
 of high-boiling fractions of, by m.s., review, 4C46
 of synthetic, by g.c., review of i.r. and photo-ionisation detectors for, 4C48
 detection of hydrocarbons of, in estuarine and ocean waters, fluorim., 4H79
 detmn. of acidic and basic components in fractions of, evaluation of techniques for, 2C68
 of Sb in, by a.a.s., 4C45
 of As in shale, by a.a.s., 1C86
 of asphaltene in, BSI gravim. method for, 2C82
 of boiling-range characteristics of fractions of, by g.c., 6C54
 of Cu, Fe and Ni in vacuum residues of crude, by a.a.s., 4C58
 of elements in, emission spectrom., 2C75
 matrix effects in spectrosc. methods for, 1C75
 of flash point of, BSI method for, 4C54
 of Mo in ash from evaporation of, spectroph., 3B122
 of Ni, Na and V in, by BSI a.a.s. method, 4C55
 of PAH in crude, 5C52
 of PAH and of heterocyclic N and S compounds in fractions of crude, liquid chrom. - m.s., 2C65
 of sterane distribution in crude, by g.c. - m.s., 3C70
 of V in crude, by O combustion - spectroph., 1C69
 fractionation of shale oil, by h.p.l.c., 2C83
 g.c. - i.r.-spectrosc. study of low-mol.-wt. fraction of, 3C76
 identn. of components of fractions of, by g.c. - m.s., 3J99
 of hydrocarbon types in fractions of, by BSI fluorescent-indicator-adsorption method, 2C64
 of hydrocarbons of, in water, i.r. spectrom., 5H91
 of source of spill samples, by g.c., i.r. spectrom. and trace-metal analysis, 3H79
 isolation of asphaltene and resins in, gel chrom., 1C72
 of thiophenic compounds from shale oil, argentation liquid chrom., 5C61
 sepn. of alkyl-substituted aromatic hydrocarbons in fraction of, by h.p.l.c., 1C71
 sepn. and identn. of alkylated benzo[h]quinolines in, by g.c. - Shpol'skii fluorim., 3C71
 study of composition of ash of, via secondary X-ray spectrum, 1C74
Petroleum gas, detmn. of bromine number of, coulom., 6C49
 sepn. of hydrocarbons in, by g.c., 1C73
Petroleum products, see also *Bitumen; Cold-rolling oils; Cutting fluids; Diesel fuel; Fuel oils; Gas oil; Insulating oils; Lubricating oils; Transformer oils*
 analysis, 6C91B
 by g.c., review, 1J67
 of fuels, liquid chrom. - n.m.r., 3C74
 of thermal cracker effluent, by g.c. and g.c. - m.s., 6C53
 detmn. of acidity or alkalinity of, by BSI potentiom. method, 2C70
 of aromatic components in, 6A7C
 by m.s., 3C83
 of As in, by a.a.s., 1C86
 of asphaltene in, BSI gravim. method for, 2C82
 of bromine number of, coulom., 6C49
 of Conradson carbon residue of, BSI gravim. method for, 2C67
 of elements in, emission spectrom., 2C75
 of flash point of, BSI method for, 4C54
 of mol.-wt. distribution of aromatic components of fuels, by chemical-ionisation m.s., 3C75
 of 'neutralisation number' of, by BSI colour indication titration method, 2C69
 of Ni and V in, by a.a.s., 2C61
 of PCB in, comparison of g.c. methods for, 3C84
 of PAH in, 5C52
 of quaternary-C, methine-, methylene- and methyl-group abundances in, by ¹³C n.m.r., 5C51
 of 'strong acid' content of, by BSI titrim. method, 2C71
 of S and other elements in, by XRF, 3C81
 of thiol-S in light, BSI titrim. method for, 2C62
 of V in, by O combustion - spectroph., 1C69
 identn. of hydrocarbons in, by g.c., 2C63
 isolation of PAH from, liquid chrom., 5C57
 sepn. and identn. of PAH in, by g.c. and g.c. - m.s., 5C58
Petroselinum hortense, detmn. of apiole and myristicin in fruit of, by t.l.c. - densitom., 4E35
Peumus boldus, extraction of alkaloids from leaves of, 1E17
pH, detmn., certification of standard buffer soln. for, 5A19
 fibre-optic sensor for, 2D11
 phthalic acid as standard for calibration in, 3A17
 in blood, by reference to aq. buffer soln., 5D14
 comparison of control materials for, 3D21
 with miniature FET sensor, 2J162
 with polymeric liquid membrane electrode, 3D26
Phaeophorbides, detmn. of a and c, by t.l.c. - fluorim., 4D276
Phaeophytins, detmn. in environmental materials, fluorim., derivation of equations used in, 6H60
 of a, by t.l.c. - fluorim., 4D276
 of c, delayed fluorim., 4H80

Pharmaceutical analysis, see also *Drugs*

- applications of deriv. spectroscopy in, review, 3D6
 of d.t.a. in, review, 2E5
 of ion-pair extraction and h.p.l.c. in, review, 6E1
 of thermal methods in, 2A4C
 new journal, 4E90B
 polarogr. and voltamm. methods in, review, 5E8
 review, 4A2
Pharmaceutical preparations, see also *Suppositories*
 analysis of creams, by g.l.c., h.p.l.c. or t.l.c., 1E2
 by h.p.l.c., 2E1
 by t.l.c., 5E5, 5E6
 of plant-based, 4E7
 of solid, evaluation of thermal methods for, 1E6
 detection of impurities in inorg., by t.l.c. on plates similar to microscope slides, 4E6
 detmn. of Cl or I in aliphatically bound form in, by KOH mineralisation - mercurim., 5E1
 of content uniformity of, polarogr. or u.v. spectroph., 1E5
 of elements in capsules, emission spectrom., 1E14
 of heavy metals in raw materials and active compounds for, voltamm., 3E1
 of K in electrolyte infusion soln., potentiom., with ion-selective electrode, 2E69
 identn. of glucidic thickeners for, 4E86
 sepn. of impurities in radio-, review, 2E64
 system for linking microcomputer to balance used for weighing tablets, 3J2
Phenacetin, identn. in analgesic preparations, by t.l.c., 3E42
 — *NO-(β-D-glucuronide)*, synthesis of, and analytical data for, 5D8
Phenalen-1-one, identn. in fossil-fuel combustion products, by g.c. - m.s., h.p.l.c. and high-resolution m.s., 5C55
Phenanthrene, detmn. in anthracene cake, by g.l.c., 3C62
Phenanthrene-9,10-dione, detmn., fluorim., 2C54
9,10-Phenanthrenequinone, see *Phenanthrene-9,10-dione*
1,10-Phenanthroline, 4,7-bis-(4-sulphophenyl)-, disodium salt, as analytical reagent, 2B5, 2B6
Phenazepam, identn. of impurity in, by t.l.c., 6E42
Phenazone, detmn. in blood plasma or saliva, by h.p.l.c., 6D84
 identn. in analgesic preparations, by t.l.c., 3E42
 —, 4-amino-, detection in blood or urine, by t.l.c. and u.v. spectroph., 4D91
Phencarol, detmn., colour reactions for, 4E54
Phencyclidine, detmn. in blood serum, by enzyme immunoassay, 4D93
 in presence of phenobarbitone, by FT i.r. photoacoustic spectrom., 3E41
 in urine, with its analogues, by g.c. - m.s., 5D52
Phendimetrazine, detmn. in blood plasma, blood serum or urine, by g.l.c. of acetyl deriv., 6D104
Phenethylamine derivatives, h.p.l.c. study of ternary Ni dithiocarbamate complexes derived from, 2E49
 sepn. and detmn., by g.c. of *N*-monotrifluoroacetyl deriv. - m.s., 2E50
Phenobarbitone, detmn., by EMIT assay, logit - log. calibration curves for, 1D52
 non-aq. titrim., 5E27
 in blood plasma, by h.p.l.c., 5D26, 5D46
 in blood plasma or blood serum, by polarisation fluoro-immunoassay, 1D64
 in blood serum, by enzyme immunoassay with Abbott-VP Analyzer, 2D76
 by fluoro-immunoassay with centrifugal analyser, 6D71
 by h.p.l.c., 2D75, 2D77, 3D77
 in presence of aspirin, u.v. spectroph., 4D84
 in human milk, by g.l.c., 4D83
 in pharmaceutical preparations, u.v. spectroph., 4E39
 in presence of benzalol, papaverine and theobromine, by h.p.l.c., 1E8
 of phencyclidine, by FT i.r. photoacoustic spectrom., 3E41
 in Sereiskii mixture powder, titrim., 6E11
 identn. in expectorant tablets, by t.l.c., 2E66
 — **sodium**, detmn., by oscillopolarogr. titration, 3E3
 in dimethyl sulphoxide medium, titrim., 5E4
Phenol, analysis of products of ozonolysis of, by h.p.l.c., 4H76
 concn. and detmn., liquid chrom., 6C36
 detmn., by kinetic - spectroph. method, 1C9
 by steam-distillation - spectroph., 1C43
 potentiom., use of sulphur nitride electrode for, 2J166
 in air, by h.p.l.c., 6H27
 in blood, by g.c., 4D133
 in blood plasma or urine, by g.l.c., 1D105
 in presence of benzoic acid deriv., ion chrom., without suppression, 6B19
 of resorcinol, by bromination - titrim., 4C29
 in skin washes, chrom. - colorim., 1D104
 in urine, by h.p.l.c., 3D135
 specific gravity adjustment in, 3D7
 in waste water, by isotachopheresis, 6H71
 in water, by h.p.l.c. of 4-aminoantipyrine deriv., 2H81
 in presence of acetic acid, potentiom., 4H72
 photom., 3H76

Phenol—continued

- identn. and detmn., ring colorim., 6C34
- reversed-phase h.p.l.c. study of, 1C42
- sepn. from chlorobenzenes and chlorophenols, by g.c., 2C48
- , 2-amino-, detmn., potentiom., with Cu^{2+} -selective electrode, 3C53
- , —, derivatives, detmn., potentiom., with Cu^{2+} -selective electrode, 3C53
- , 4-amino-, detmn. in presence of NH_3 and aniline, spectroph., 1C50
- , 2-(5-bromo-2-pyridylazo)-5-diethylamino-, as metallochromic indicator, 4B186
- , t-butyl-4-methoxy-, detmn. in dairy products, by g.l.c., 4F50
- , in fats or fatty oils, by BSI g.l.c. method, 5F74
- , in lard or oil, collaborative study of h.p.l.c. method for, 5F75
- , in presence of hydroxybenzoates, by g.c. of heptafluorobutyrate or trifluoroacetate deriv. - m.s., 2E70
- , in soya-bean oil, by g.l.c., 4F76
- identn. in fats or fatty oils, by BSI t.l.c. method, 4F76
- sepn. of isomers of, by h.p.l.c., 6F16
- , 2-chloro-, detection in 2,4-D or 2,4-dichlorophenol, by h.p.l.c., 5G28
- detmn. in water, photom., 3H76
- , 4-chloro-, detection in 2,4-D or 2,4-dichlorophenol, by h.p.l.c., 5G28
- detmn. in camphorated parachlorophenol, by n.m.r., 6E9
- , in water, photom., 3H76
- , cyclopentyl-, sepn. of isomers of, by t.l.c., 6C35
- , 2,6-di-t-butyl-4-(hydroxymethyl)-, detmn. in lard or oil, collaborative study of h.p.l.c. method for, 5F75
- , dichloro-, sepn. of isomers of, by g.l.c., 1C44
- , 2,4-dichloro-, detmn. of phenol impurities in, by h.p.l.c., 5D28
- , 2,6-dichloro-, detection in 2,4-D or 2,4-dichlorophenol, by h.p.l.c., 5G28
- , 2-isopropoxy-, sepn. from other urinary pesticide metabolites, by h.p.l.c., 5D85
- , 4,4'-isopropylidenedi-, detmn. in air, by h.p.l.c., 6H27
- , isopropylidenedi(dibromo)-, detmn. in air, absorptiom., 5H37
- , 4,4'-isopropylidenedi-(2,6-dibromo)-, detmn. in mussels or sediments, by g.c. - m.s., 6H59
- , 4-nitro-, detmn., potentiom., use of sulphur nitride electrode for, 2J166
- , pentachloro-, detmn. in air, by collection on silica gel - g.l.c., 1H40
- , in blood plasma or urine, by g.l.c., 1D105
- , in hardwood chips, by g.l.c. of acetate, 1C97
- , in wood preservatives, by g.c. of free compound or of methyl deriv., 1C98
- , 2-phenyl-, see *Biphenyl-2-ol*
- , 2,4,6-tri-t-butyl-, detmn. in cold-rolling oils, by h.p.l.c., 6C58
- Phenols**, see also *Polyphenols*
- analysis, by g.l.c. and h.p.l.c., review, 6C33
- , of mixtures of, by h.p.l.c., 5C36
- , of plant, by h.p.l.c., 5G4
- , reversed-phase liquid chrom., automated classification of results in, 6D154
- , of urinary, liquid chrom. - spectroph., 2D129
- detection in water, by h.p.l.c., 6H54
- detmn., by ^{19}F n.m.r. of pentafluoropropionyl deriv., 3E9
- , catalytic thermom. titrim., thermom. indicators for, 3A19
- , comparison of colorim. and instrumental methods for, 3B11
- , in malt, spectroph., 3F52
- , in plants or soil, by h.p.l.c., 4G9
- , in urine, by g.l.c., 4D132
- , in water, by h.p.l.c. of 4-aminoantipyrine deriv., 2H81
- , in whisky, by g.l.c., as 2,4-dinitrophenyl ethers, 1F52
- , of elements in, by g.c. of TMS deriv. - m.s., 2F5
- , of migration of, from polymeric coatings, review, 6F18
- , of pharmaceutical, spectroph., 6E8
- , extraction from blood or blood plasma, with liquid-membrane enzyme reactor, 4D131
- , g.c. - m.s. and g.c. - triple quadrupole m.s. studies of priority pollutants, 3H5
- , identn. in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
- , identn. and detmn. in environmental materials, by triple-quadrupole m.s., 4H68
- , liquid-chrom. study of, 2C49
- , sepn., by h.p.l.c., 2J32, 3J19
- , by t.l.c., 6J50
- , from anthocyanidins, anthocyanins and related substances, by h.p.l.c., 4D270
- , of substances formed on heating of sugars, by h.p.l.c., 5C37
- , sepn. and detmn., by h.p.l.c., 1J52
- , sepn. and identn., by h.p.l.c. of products of coupling with diazotised sulphonic acid, 1C41
- , alkyl, detmn., by n.m.r., 4C30
- , in lubricating-oil additive, liquid chrom., 2C77
- , sepn., liquid chrom., 5C35
- , amino-, detmn. in oxidative hair dyes, by t.l.c. - densitom., 2C96
- , chloro-, analysis, by g.l.c. (or g.l.c. - m.s.) of acetyl deriv., 3C45
- , concn., sepn. and detmn., liquid chrom., 6C36
- , detmn. in air, by collection on silica gel - g.l.c., 1H40
- , in biol. materials, urine or water, liquid chrom., with pre-concn. on copolymeric sorbent, 1H78

Phenols, chloro-, determination—continued

- , in pulp-mill bleaching effluents, by g.c. (or g.c. - m.s.) of acetyl or methyl deriv., 2H103
- , in water, by h.p.l.c., with pre-concn. on pyrocarbon-modified silica, 1H77
- , g.c. study of acetyl deriv. of, 3C50
- , identn. and detmn., ring colorim., 6C34
- , sepn., by h.p.l.c., 3J18
- , from benzene, phenol and chlorobenzenes, by g.c., 2C48
- , from chlorocatechols and from each other, by g.c., 3C44
- , of acetylated, from related compounds and from each other, by g.c., 2C50
- , —, methyl esters, detection in water, by g.c. (or liquid chrom.) - m.s., 2H83
- , halo-, prediction of results of potentiom. two-phase titration of, 1C45
- , nitro-, prediction of results of potentiom. two-phase titration of, 1C45
- Phenothiazine derivatives**, detmn., polarogr., review, 5E30
- , titrim., 6E38
- , sepn., identn. and detmn., by t.l.c., 5E32
- Phenothoate**, isolation from liver tissue, comparison of methods for, 6D145
- Phenylbutazone**, detmn. of heavy metals in, voltamm., 3E1
- , of purity of, with AMICA automatic analyser, 6J17
- m-Phenylenediamine, 4-methoxy-**, detmn. in oxidative hair dyes, by t.l.c. - densitom., 2C96
- p-Phenylenediamine**, detmn. in oxidative hair dyes, by t.l.c. - densitom., 2C96
- , salts, characterisation, by fast-atom bombardment, 3C118
- Phenylenediamine derivatives, nitro-**, detmn. in oxidative hair dyes, by h.p.l.c., 2C97
- , by t.l.c. - densitom., 2C96
- Phenylephrine hydrochloride**, detmn., spectrom., 4E49
- , in presence of chlorpheniramine maleate and Na benzoate, by h.p.l.c., 6E12
- Phenylpropanolamine hydrochloride**, detmn. in appetite-suppressant formulations, by h.p.l.c., as benzaldehyde, 5E37
- Phenytol**, detection in blood serum, solid-phase reagent strip for, 6D49
- , detection and detmn. in post-mortem blood, by g.l.c., 1D62
- , detmn., by EMIT assay, logit - log. calibration curves in, 1D52
- , in blood plasma, by h.p.l.c., 5D26, 5D46
- , in blood serum, by e.s.r., 5D47
- , by enzyme immunoassay with Abbott-VP Analyzer, 2D76
- , by fluoro-immunoassay with centrifugal analyser, 6D71
- , by h.p.l.c., 2D75, 2D77, 3D77
- , interferences in immunoassays for, 4D86
- Pheromones**, detmn. of insect aldehyde, by bioluminescence method, 4D148
- , identn. of insect, by g.c. - m.s., 3J99
- , identn. and detmn., by collection on porous polymer beads - g.c., 1D117
- , use of liquid crystals in g.c. of, and of their analogues, 3D156
- Phetanol**, see *Eulefrine hydrochloride*
- Phlojodicarpus sibiricus**, detmn. of dihydrosamidine and visnadine in roots of, by g.l.c., 6D157
- Pholcodine**, detmn. in cough mixture, by h.p.l.c., 3E74
- Pholedrine sulphate**, detmn., spectroph., 4E4
- Phorate**, detmn., by g.c., comparison of supports for, 4G20
- , spectroph., 4G17
- Phosphamidon**, detmn., indirect photom. or titrim., 4G17
- Phosphatases**, see under *Enzymes, specific*
- Phosphate**, see also *Hexafluorophosphate*
- , detection, colour reaction for, and detmn., spectroph., 1B118
- , detmn., acceptable limits for precision and accuracy in, 3D3
- , by g.l.c., 4B119
- , by h.p.l.c. - emission spectrom., 2J35
- , by XRF, indirect, 4B120
- , laser Raman spectrom., limits of OH^- concn. for, 4B122
- , spectroph., 3B104, 5D22
- , with centrifugal analyser, comparison of standardisation techniques for, 1D13
- , in blood serum, by t.l.c. of molybdate complex - u.v. spectroph., 2D55
- , comparison of methods for, using pattern recognition, 2D21
- , simplified spectroph. method for, 2D56
- , in complex matrices, by enzymic - h.p.l.c. method, 6D39
- , in muscle tissue, by bioluminescence method or fluorim., 4D13
- , in presence of As^3 , spectroph., 3B103
- , of other anions, by g.l.c. of t-butylidimethylsilyl deriv. - m.s., 2B15
- , of silicate, by kinetic - spectroph. method, 2B113
- , in renal calculi, i.r. spectros., 2D18
- , in soil, ion chrom., 6G14
- , spectroph., effect of pH in molybdenum blue method for, 3G14
- , in urine, in presence of ioxaglate, 2D45
- , in water, automated ion chrom., 5H83
- , by semi-differential electroanalysis, 3H59
- , ion-exchange chrom., 5H71
- , spectroph., 3H60
- , in water or waste water, evaluation of automatic analyser for, 3H57
- , sample treatment for, 2H61
- , of protein-bound, automated continuous-flow colorim., 5D152

Phosphate—continued

- selective sorbent for, 4B121
sepn. from EDTA, ion chrom., 3C40
- Phosphates**, see also *Minerals, ores and rocks, phosphate condensed*, see *Polyphosphates*
sepn. and detmn. in biol. tissues, with Bessman phosphate analyser, 6D12
- Phosphatidylcholines**, analysis of fatty acids in blood-serum, by t.l.c. - g.l.c. of methyl esters, 4D165
detmn., absorptiom., 4D166
in blood serum, enzymic - spectroph., 6D180
in erythrocyte membranes, enzymic - spectroph., 2D163
in presence of other lipids, by t.l.c. - reflectance densitom., 1D129
of high-density-lipoprotein, in blood serum, enzymic, 4D167
of phosphatidylcholine - sphingomyelin ratio in amniotic fluid, effects of phospholipid saturation in, 2D159
necessity for acetone pptn. step in, 2D158
fast-atom-bombardment m.s. study of, 6D178
sepn. of α -, from phosphosphingomyelin, liquid chrom., 4D164
- Phosphatidylethanolamine**, sepn. from other phospholipids, by t.l.c., 3D176
- Phosphatidylglycerol**, detmn., possible interference in t.l.c. method for, 2D162
in amniotic fluid, enzymic - radiom., 6D181
sepn. from other phospholipids, by t.l.c., 3D176
- Phosphatidylinositol**, sepn. from other phospholipids, by t.l.c., 3D176
- Phosphatidylserine**, sepn. from other phospholipids, by t.l.c., 3D176
- Phosphine**, detmn. in gas mixtures, accuracy of sampling pumps and detector tube combinations for use in, 2G20
- Phosphinic acid derivatives, dialkyl**, g.l.c. study of methyl esters of, 4C25
- Phosphite**, detmn., by g.c. of t-butylidimethylsilyl deriv., 3B14
in presence of other anions, by g.l.c. of t-butylidimethylsilyl deriv. - m.s., 2B15
- Phospholipase**, see under *Enzymes, specific*
- Phosphogluconate dehydrogenase**, see under *Enzymes, specific*
- Phosphogypsum**, detmn. of Sr in, 1B54
- Phosphohydrolases**, see under *Enzymes, specific*
- Phospholipases**, see under *Enzymes, specific*
- Phospholipids**, analysis, by m.s., comparison of techniques for, 6A7C
by t.l.c., 2D157
comparison of m.s. techniques for, 3D177
detection, by t.l.c., influence of saturation in, 2D159
detection and detmn., by t.l.c., comparison of reagents for, 6D175
detmn., by g.c. of t-butylidimethylsilyl deriv. of deuterated diacylglycerols - m.s., 1D131
in blood-plasma lipids, by field-desorption m.s., 2D155
in tissue lipids, liquid chrom., with flame ionisation detector, 1D128
of 'lamellar body', in amniotic fluid, fluorim., 2D161
fast-atom-bombardment m.s. study of, 6D178
sepn. from other liver-tissue lipids and from each other, by t.l.c., 3D170
from phosphonolipids, by t.l.c., 2D164
sepn. and detmn. of saturated and unsaturated, by t.l.c. - densitom., 2D156
- Phosphonic acid, (aminomethyl)-**, detmn. in fruit or vegetables, by h.p.l.c. - fluorim., 1G27
—, 2-hydroxyethylidenebis-, detmn. in water, spectroph., 2H80
—, methyl-, di-isopropyl ester, detection in air, with piezoelectric crystal detector, 5H32
—, [nitrilotris(methylene)tris]-, hexasodium salt, characterisation, by fast-atom bombardment, 3C118
- Phosphonic acid derivatives**, g.l.c. study of alkyl methyl esters of, 4C25
—, aminoalkyl, sepn., by isotachopheresis, 4C89
- Phosphonolipids**, sepn. from phospholipids, by t.l.c., 2D164
- Phosphosphingomyelin**, sepn. from cardiolipin and other phospholipids, liquid chrom., 4D164
- Phosphonothioic acid, methyl-, S-(2-di-isopropylaminoethyl) O-ethyl ester**, detmn., by g.c., 1C128
- Phosphonothioic acid aminoethyl ester**, detmn. in waste water, ion-exchange chrom. - spectroph., 2H106
- Phosphoramidic acid derivatives**, sepn. of esters of, by t.l.c., 1C53
- Phosphoribomutase**, see under *Enzymes, specific*
- Phosphoric acid**, detmn. in coffee, by isotachopheresis, 3F42
in sauerkraut brine, by isotachopheresis, 2F36
in wine, by isotachopheresis, 6F68
— esters, detmn. in adipose tissue, gel chrom. - g.l.c., 6D143
g.l.c. study of methyl esters of alkyl dihydrogen, alkyl aryl hydrogen and dialkyl hydrogen, 4C25
—, bis-(2-ethylhexyl), copper salt, detmn. of free bis-(2-ethylhexyl) hydrogen phosphate in, potentiom., 1C37
—, diaryl, detmn. in fish tissues, sediments or water, by g.l.c., 6D142
- Phosphorimetry**, analysis of multi-component mixtures by multi-dimensional, 3J89
of drugs on filter-paper at low temp., 2J124
review, 1J137
room-temp., evaluation of ion-exchange filter-papers as solid substrates for use in, 3J88
reviews, 1J136, 5J134
- Phosphorodithioic acid bis-(OO-dialkyl-, zinc salt**, differential-scanning-calorim. and pyrolysis - g.c. study of thermal decomposition of, in lubricating oils, 6C57

Phosphorothioic acid esters, S-benzyl di-(O-isopropyl), detmn., by g.c., 1C128

—, O-ethyl O-methyl O-(2,4,5-trichlorophenyl), see *Trichlormetaphos-3*

Phosphorothioic trichloride, detmn. of HCl, PCl₃ and total P in, potentiom., 3B105

Phosphorothioic acid diethyl methyl ester, identn., by m.s. - m.s., 2J150

Phosphorothioic acid SSS-tributyl ester, detmn. in fish tissues or water, by g.l.c., 5H94

Phosphorous acid esters, detmn. of tri-, mercurim., 1C36

Phosphors, detmn. of La in gadolinium lanthanum oxide sulphide, polarogr., 6B195

of Mg, Ag, Na and Zn in ZnS - Ag, by a.a.s., 4B214

Phosphorus, detmn., by XRF, gelatin-film calibration standard for, 1J98

difference spectroph., 3B102

emission spectrom., 2B18

evaluation of Hitachi 705 analyser for, 4D10, 4D11

spectroph., 2B112, 4B182

with electron micro-probe, 1J99

in alloys, spectroph., 2B111

in aluminium alloys, by n.a.a., 6B61

in aluminium fluoride, by XRF, 6B62

in biol. materials, by n.a.a. *in vivo*, interferences in, 5D13

emission spectrom., standards for use in, 2D34

in cement, clay, feldspar or limestone, emission spectrom., 6B196

in cryolite, BSI a.a.s. method for, 5B71

in feeding-stuffs, by flow-injection - spectroph. method, 5G17

in fertilisers, emission spectrom., 2G5

in fluorite, BSI spectroph. method for, 5B177

in indium phosphide, by standardless electron micro-probe method, 1B206

in iron, spectroph., 4B179

in minerals, ores or rocks, by XRF, 5B172

comparison of methods for, 1B191

spectroph., 2B110

in petroleum or petroleum products, by XRF, 3C81

in pharmaceutical capsules, emission spectrom., 1E14

in phosphorothioic trichloride, potentiom., 3B105

in plants, by n.a.a., 5G2

by XRF, 1G19

use of standard samples for control in, 1G18

in polymer stabilisers, colorim., 3C114

in presence of W, spectroph., 5B134

in quartz, by n.a.a., 6B92

in silicates, by XRF, 2B91

in silicon, by photoluminescence method, 2B88

in silicon semiconductors, by n.a.a. - autoradiogr., 6B91

in soil, emission spectrom., 2G2

in steel, elimination of W interference in spectroph. method for, 4B181

emission spectrom., 4B169

interferences in, 3B142

spectroph., 4B179

in tobacco, automated, 5D3

in waste water, by h.p.l.c. of molybdoheteropoly yellow complex, 4H90

in water, spectroph., 5H67

of available, in soil, extraction methods for, 6G13

of depth distribution of, in phosphosilicate glass films, by proton activation, 5A4C

of different chemical forms of, in biol. tissues, with Bessman phosphate analyser, 6D12

of inorg., in soil, spectroph., 6G12

with Cobas-Bio centrifugal analyser, 2D20

of PV in phosphate rocks, by measurement of total radioactivity, 5B114

of sol. reactive, in water, effects of Mo-enhanced hydrolysis in, 5H70

filtration artefacts in, 5H69

solvent extraction of, with crown ether, as molybdophosphoric acid, 2B112

Phosphorus trichloride, detmn. in phosphorothioic trichloride, potentiom., 3B105

of Se and Te in, 6B118

Photographic materials, characterisation of processing chemicals, by fast-atom bombardment, 3C118

detmn. of Li in film, with laser micro-probe, 6J100

of Ag in, coulom. or voltamm., 6C88

of Ag in waste soln. from, radiom., 6B42

fast-atom-bombardment m.s. study of processing chemicals, 6A7C

Photo-ionisation, cuvette for studies of two-photon, permitting simult. fluorim. and photoacoustic measurements, 2J127

Phthalazine derivatives, as analytical reagents, review, 1A11

Phthalic acid, as standard substance for calibration of pH measurements, 3A17

detmn. in raw materials for poly(ethylene terephthalate) production, by g.l.c. of methyl ester, 5C83

h.p.l.c. study of, 4D207

— esters, detmn. in water, by hydrolysis - g.c., 2H84

identn. and detmn. in environmental materials, by triple-quadrupole m.s., 4H68

Phthalic acid, esters, identification and determination—continued

- in epoxy-resins, by t.l.c. - i.r. spectrom. - h.p.l.c., 2C122
sepn., by h.p.l.c., 2J32
from alditol acetates, by g.c., 6D152
—, **bis-(2-ethylhexyl)**, h.p.l.c. study of, 5J26
sepn. and detmn. of metabolites of, in blood serum or urine, by h.p.l.c., 4D134
Phthalic acid, 4-dimethylamino-, detmn. in products of 4-dimethylamino-phthalohydrazide oxidation, by t.l.c. - fluorim., 3C55
Phthalimide derivatives, h.p.l.c. study of *N*-substituted, 3C54
Phthalohydrazide, 4-dimethylamino-, analysis of oxidation products of, by t.l.c. - fluorim. - spectroph., 3C55
Phulwara butter, see *Madhuca butyrea*
Phylloquinone, detmn. in blood plasma, differential pulse polarogr., 1D60
in blood serum, by h.p.l.c., 6A5C
in liver tissue, by h.p.l.c., 4D296
Physostigmine, detmn. in blood plasma, by h.p.l.c., 3D59
Phytic acid, detmn. in biol. materials or foods, by h.p.l.c., 1F16
in cereals or legumes, review, 5F27
in flour, indirect complexom., 5F28
Phytoecdysones, isolation from *Ajuga* spp., by h.p.l.c. and droplet counter-current chrom., 2D185
Phytoplankton, see under *Micro-organisms*
Pickles, detmn. of Roussin red methyl ester in vegetables, liquid chrom. - g.l.c. - m.s., 5F56
Picloram, detection in cereals, by t.l.c., 4G16
detmn. in plants, by t.l.c., 3G32
recovery from pre-analysis extraction column, 1G25
— **methyl ester**, recovery from pre-analysis extraction column, 1G25
2-Picoline, detmn. in presence of diethylamine, non-aq. potentiom., 1C49
sepn. from related compounds, liquid chrom., 4C42
— **1-oxide**, sepn. from related compounds, liquid chrom., 4C42
3-Picoline, detmn. in presence of diethylamine, non-aq. potentiom., 1C49
4-Picoline, detmn. in presence of diethylamine, non-aq. potentiom., 1C49
Picric acid, sampling of, from water, evaluation of sorbents for, 5H88
Pigments, analysis, by two-dimensional t.l.c., review, 5J74
detmn. of Cd in, gravim., 2A11
of Hg in org., by isotope dilution, 6B57
of stearic acid in iron oxide, potentiom., 1C125
identn., vapour-phase u.v. absorption spectrom., 4C71
with Raman micro-probe and electron microsc., 1A1C
Pilocarpine hydrochloride, detmn., non-aq. titrim., 5E3
Pinelic acid, 2,6-diamino-, detection in sputum, by g.l.c. of methyl ester - m.s., 1D119
Pimozide, detmn. in blood plasma, by g.l.c., 5D54
Pinane derivatives, g.l.c. study of, 5C49
Pinaverium bromide, detmn. in blood serum, by g.c. of reduction product - m.s., 2D92
Pineapple juice, detmn. of elements in, by a.e.s., 2J110
Pinene, sepn. of α - and β -, by g.c., 1J66
Pinus sylvestris, detmn. of indol-3-ylacetic acid in, by h.p.l.c. or fluorim., 1G23
Pipcurium bromide, detmn., with its hydrolysis products, by t.l.c. - densitom., 3E63
Pipelic acid, detmn. in blood plasma, ion-exchange chrom. - spectroph., 4D202
Pipemic acid, detmn. in blood serum or urine, by h.p.l.c., 6D117
Piperacillin, detmn. in blood plasma or cerebrospinal fluid, by h.p.l.c., 3D64
Piperidine, detmn. in fish or meat products, by h.p.l.c., 1F20
Piperidine derivatives, t.l.c. study of quaternary halides, 3C68
Piperidine-2-carboxylic acid, sepn. of enantiomers of, ion-exchange chrom., 6J42
Piperidinium chloride, 1-[2-(2-heptyloxyphenylcarbamoyloxy)ethyl]-, see *Heptacaine*
Piperonyl butoxide, detmn. in aerosol formulations, by h.p.l.c., 5G33
Pipothiazine, detmn. in blood serum, with its metabolite, by h.p.l.c., 1D70
Piracetam, detmn. in aqueous humour or blood serum, by h.p.l.c., 4D103
Pirimicarb, detmn. in fruit or vegetables, by g.c., 6G31
Pirimiphos-methyl, detmn. in fruit or vegetables, with its *N*-de-ethyl analogue, by t.l.c., 4G21
Piromidic acid, detmn. in fish tissues, by h.p.l.c., 4F38
Piroxicam, detmn. in blood serum, by h.p.l.c., 6D88
Piscidia erythrina, isolation and detmn. of jamaicin and lisetin in, by t.l.c. and h.p.l.c., 5D97
Pitch, analysis of PAH in, by h.p.l.c. - t.l.c., 3C90
detmn. of quinoline-insol. material in electrode, BSI gravim. method for, 5C60
Pituitary tissue, detmn. of sulphide in, by h.p.l.c. - m.s., 2D87
Placental lactogen, see *Prolactin*
Plankton, see under *Micro-organisms*
Plants, see also *Algae; Cereals; Grasses; Vegetables*
analysis, by chromat. - a.s., 2J74
of amino-acids in, by h.p.l.c. of phthalaldehyde deriv., 2D210
of org. acids in, by h.p.l.c., 2J44
of phenolic fractions of extracts of leaves of, liquid chrom., 4D12
of phenols in, by h.p.l.c., 5G4
reversed-phase liquid chrom., automated classification of results in, 6D154

Plants, analysis—continued

- of waxes in leaves of, by h.p.l.c., 1D127
assay of ferredoxin-dependent sulphite reductase in leaf extracts from, colorim., 5D203
of nitrate reductase in leaves of, *in vivo*, 2D280
detection of phospholipase D in extracts of, by t.l.c., 5D217
detection and detmn. of tannins in, review, 2D130
of zineb in leaves of, by t.l.c. - spectroph., 1G30
detmn. of abscisic acid in, by g.c. of methyl ester, 2G8
purification procedure for, 4G13
of ^{241}Am and Pu in, by ion exchange - electro-deposition - α -spectrom., 3G12
of 1-aminocyclopropane-1-carboxylic acid in, enzymic - spectroph., 5F52
of ammonium-N in Kjeldahl digests of, automated colorim., 3G13
of ascorbic acid in extracts of, by kinetic - fluorim. (or spectroph.) method, 1D251
of ascorbic acid in good products, by h.p.l.c., 5F54
of D- and L-ascorbic acid in juices of, by t.l.c. - spectroph., 2F41
of benzo[a]pyrene in, fluorim., effect of traffic on results in, 3G16
of B in, fluorim. or spectroph., 3G11
of carbafuran and carbosulfan in, by g.c., 3G42
of ^{14}C in, by liquid scintillation counting, sample preparation for, 6D31
of Cl^- in, potentiom., with ion-specific electrode, 6G4
of chlorothalonil in, by g.l.c. or t.l.c., 6G32
of Co in ash of, voltamm., 6B160
of Cu, Pb, Mo and Zn in, a.c. polarogr., 2D39
of Cu, Pb and Ni in, by h.p.l.c., 4D25
of cytokinins in, by t.l.c. - h.p.l.c. - g.l.c. of TMS deriv. - m.s., 4G14
of DNA in extracts of, fluorim., 3D272
of elements in, by a.a.s., 4D19, 6D17
by proton activation, 6D19
by spark-source m.s., 1D23
with pre-concn. by cementation, 1D24
by XRF, 6G1
certification of reference materials for, 6D14
digestion technique for, 4D22
emission spectrom., 4D18, 6G8
of elements in ash of, by XRF, 1F4
of elements in fodder, by XRF, 1G19
of elements in leaves of, by plasma-source m.s., 2J146
of glucosinolates and their breakdown products in cruciferous, review, 5G6
of hydroxycinnamic acids in forage, 5A2C
of indolacetylaspatic acid and indol-3-ylacetic acid in, by isotope dilution - h.p.l.c., 1D165
of insect attractants in, by g.l.c., 6G39
of I in, losses during ashing in, 6F26
of Pb in, by Zeeman a.a.s., 1D42
of Hg in, by a.a.s., potential source of interference in, 6B56
of metribuzin and its metabolites in, by h.p.l.c., 4G15
of Mo in, comparison of spectroph. methods for, 6D42
of Nb, Ta and W in, by XRF, 3G19
of N in, by n.a.a., interferences in, 6D38
comparison of methods for, 1G14
of N in Kjeldahl digests of, using KMnO_4 as oxidant, 5G1
of N, P and K in, by n.a.a., 5G2
of phenolic compounds in, by h.p.l.c., 4G9
of picloram in, by t.l.c., 3G32
of Pu in, by volatilisation - α -spectrom., 6D29
of protein in, in presence of chlorophyll, comparison of methods for, 4D243
of reducing sugars and sucrose in, by h.p.l.c., 3F6
of Se in, by a.a.s., 4D37
of S in, spectroph., 4D35
of tannins in, spectroph., 1D218
of thiodan in, by g.c., 4G19
of Ti in, spectroph., 6D36
extraction of alkaloids from, 1E17
identn. of terpenoids and detmn. of α - and β -thujone in, by g.c. - m.s., 6D156
of volatile components of, by 'enflourage' h.p.l.c., 4J17
identn. and detmn. of cAMP in, by h.p.l.c., 1D234
of flavonoids in preparations of medicinal, comparison of methods for, 3E19
meter for study of photosynthesis by, 3J5
sampling of, for environmental specimen banking programme, 1G1
sepn. of pigments of, by t.l.c., 6D256
sepn. and detmn. of neutral sugars from cell walls and mucilages of, by h.p.l.c., 3D145
study of org. compounds in, with laser micro-probe mass analyser, 5A3C
Plasmalogenase, see under *Enzymes, specific*
Plasmalogens, sepn. and detmn. of saturated and unsaturated, by t.l.c. - densitom., 2D156
Plasminogen, detmn., enzymic, 4D250
in blood plasma, with Du Pont *aca* analyser, 4D251

- Plasticisers**, secondary-ion m.s. study of, 5A3C
sepn. from alditol acetates, by g.c., 6D152
- Plastics**, analysis, apparatus for wet-ashing for, 5C3
applications of computer-aided i.r. spectrometry in, review, 5C84
detmn. of Sb or As in, by alkali fusion - iodim., 6C6
of light stabilisers in, by h.p.l.c., 5C86
of Th and U in packaging materials, by secondary-ion m.s., 1B204
monitoring of gases evolved from combustion or pyrolysis of, ion-selective analyser for, 6J170
- Platinum**, concn., on carbonaceous materials, 6B43
on Polyorgs V, 1B27
detection, colour reactions for, 1B26
detmn., by a.a.s., 1B188, 5B158
by charged-particle activation, 3B12
emission spectrum., extraction method for, 6B24
spectroph., 3B163, 4B203
with concn. in molten naphthalene, 3B164
in biol. materials, by n.a.a., 3D51
in biol. tissues, by PIXE, 5A4C
in blood serum or urine, by n.a.a., 3D52
in catalysts, by XRF with 'direct' β -excitation, 3B174
in minerals, ores or rocks, by a.a.s., after pre-concn. with zephiramine, 4B48
in presence of Au, Ir, Pd and Rh, spectroph., 2B20
of other elements, by n.a.a., 5B9
of other platinum-group metals and Au, photom., 5B160
of other precious metals, by a.a.s., 4B22
of Rh, polarogr., 5B171
in sweeps, 1B15
of concn. profile of, in pelleted catalysts, by XRF - electron microsc., 5B186
of Pt^{II} or Pt^{IV} , spectroph., 6B168
of Rh in, by a.a.s., 5B158
extraction from aq. soln., on polyurethan foam, 6B179
ion-exchange study of, 6B14
report of symposium on chemotherapeutic agents containing, 5A1
sepn. from Au, Ir and Pd, ion-exchange chrom., 1B189
from other elements, by t.l.c., 1B23
solvent extraction of, as chloro-complex, with alcohols, 5B166
as PtCl_4^{2-} , with triphenylphosphine in CH_2Cl_2 in presence of SnCl_2 , 4B204
sorption of, by polymeric thioether, 5B159
- , *cis*-diammine-, 1,1-cyclobutanedicarboxylate, detmn. in blood plasma, by h.p.l.c., 4D119
- , *cis*-dichloro-*trans*-dihydroxydi-isopropylamino-, detmn. in blood plasma, by h.p.l.c., 4D119
- synthesis, identn. and g.c. detmn. of acyl deriv. of, 2D97
- Platinum, reagents for**, benzenethiol, 6B168
dithio-oxamide, 2B20
furan-2-thiocarbohydrazide, 3B164
2-pyridyl 2-thienyl (Z)-ketoxime, 3B163
thiosemicarbazones of hydroxybenzophenones, 1B26
thiridine, 4B203
toluene-4-thiol, 6B168
4,4,6-trimethyl-1-(2-nitro-*p*-tolyl)pyrimidine-2-thiol, 5B160
- Platinum complexes**, sepn. and detmn., by h.p.l.c. - amperom., 5D74
with cyclohexane-1*R*,2*R*-diamine, sepn., by h.p.l.c., 2E61
- Platinum-group metals**, detmn., by a.a.s., a.e.s. or XRF, after pre-concn. on poly(thiomethylene) sorbents, 4B195
- Plutonium**, adsorption of, on alumina from HNO_3 - oxalic acid soln., 6B82
detection, by resonance-ionisation m.s., 2B82
detmn., amperom., 2B83
automated instrumentation for, 4B99
by electro-deposition - XRF, 4B89
potentiom., 6B80
 PuO_2^{2+} -selective electrode for, 3J139
in air, Rn-immune monitor for, 4H10
in biol. or environmental materials, by ion exchange - electro-deposition - α -spectrom., 3G12
in large waste packages, modular system for, 2B84
in plants or soil, by volatilisation - α -spectrom., 6D29
in presence of Fe or Np, controlled-potential coulom., 5B91
of U, potentiom., 3B77
in soil, γ -spectrom., system for, 4J124
of isotopes of, γ -spectrom., review, 6B79
of ^{240}Pu , by deconvolution of γ -spectra, portable unit for, 4B103
of U in, ion-exchange chrom. - XRF, 6B83
ion-exchange study of, in nitrate and oxalate media, 6B81
of Pu^{IV} and Pu^{VI} , 1B198
isotopic analysis, by m.s., automated, 3J94
monitoring and detection of movement of, in storage vaults, with array of ^3He proportional detectors, 4B104
sepn. from ^{241}Am in environmental samples, extraction chrom., 6A5C
from Am and Pu, by h.p.l.c., 3B83
from bone tissue, by co-pptn. with bismuth phosphate, 6D30
from leachant, by Ca oxalate co-pptn., 4B101
of ^{239}Pu from other fission-product elements, liquid chrom., 6B22
solvent extraction of, with tributyl phosphate from HCl or HClO_4 media, 3B80
with tributyl phosphate from HNO_3 soln., 3B84
- Podophyllotoxin**, sepn. of diastereoisomers of, by h.p.l.c., 1E51
- Polarography**, a.c., system for, with parametric compensation of residual current, 6J161
use of Hadamard transformation in, 2J181
analytical potential, principles and techniques in, 4J137
applications of, in analytical laboratory and in process control, 4A1C
bubble electrode for use in, 6J160
compilation of collections of data in, 4A24
electrolytic vessel for use in, 4J127
in pharmaceutical chemistry and pharmacology, review, 5E8
review, 6J126
review of unconventional techniques for, 3J143
—, differential pulse, control and data-processing system for, 1J198
using computer-controlled analyser, 1J197
- Pollen**, detmn. of 2-chloroethanol in, by g.l.c., 5F22
- Polonium**, detmn., ion-exchange chrom. - α -spectrom., 4B139
sepn. of ^{210}Po from ^{210}Bi and ^{210}Pb , ion-exchange chrom., 6B17
from environmental samples, by diethyldithiocarbamate extraction, 4B140
- Polyacrylamide**, detmn., polarogr., 3C110
- Poly(acrylic acid)**, detmn., polarogr., 3C110
- Polyamides**, detmn. of HCl in as-spun and heat-treated fibres of, and of Cl^- and LiCl in spinning soln. for, potentiom., 3C105
of insect-proofing agents in textiles, by h.p.l.c., 3C103
of terminal amino-groups in dyed, spectroph., 3C104
differential scanning calorim. studies of fibres of, review, 4C77
— 6, detmn. of polyglycols, polyglycol deriv. and glycerol in, by HI decomposition - g.l.c., 2C108
- Polyamines**, detmn. in urine, by t.l.c. of dansyl deriv. - fluorim., 6D196
identn., by t.l.c., 6D197
identn. and detmn. in gastric aspirate, paper chrom. - densitom., 2D193
- Polybutadiene**, detmn. of fillers in cross-linked, by isomeric rearrangement - gravim., 4C79
fractionation, by t.l.c., 2C110
preparation and gel-chrom. sepn. of u.v.-absorbing deriv. of, 2C109
- Polycarbonates**, ^{13}C n.m.r. measurements of solid, 2C116
- Polycyclic aromatic compounds**, see also under *Amines*; *Aza-arenes*; *Hydrocarbons*; *Nitro-compounds*
characterisation in emissions from straw or wood combustion, liquid chrom. - g.c. - m.s., 1H37
detection in h.p.l.c. eluates, by chemiluminescence method, 5C45
detmn. in emissions from brown-coal-fired stoves, by g.c. - m.s., 6H29
of O-containing, in air-borne dust, by g.c. and g.c. - m.s., 4H26
identn. and detmn. in crude oil, by g.c. - g.c. - m.s., 1C70
- Polydimethylsiloxanes**, analysis of decomposition products of, by g.l.c., 3C117
- Polyether alcohols**, detmn. of hydroxyl values of, titrim., 1C116
- Polyethylene**, analysis of products of degradation of, by g.c., 5C79
of products of oxidative pyrolysis of, by g.c. and g.c. - m.s., 2C113
characterisation of branched, gel chrom. - continuous viscom., 2C112
- Poly(ethylene oxide)**, detmn. of residual NH_3 in, by head-space g.c., 1C109
fractionation, by t.l.c., 2C110
- Poly(ethylene terephthalate)**, detmn. of impurities in raw materials for production of, by g.l.c., 5C83
of vinyloxy carbonyl end-groups in thermally degraded, coulom., 3C112
study of, with laser micro-probe mass analyser, 5A3C
- Polyglycols**, detmn. in polyamide 6, by HI decomposition - g.l.c., 2C108
- Polyisobutene**, detmn. of mol.-wt. distribution of low-mol.-wt., gel chrom., 1C108
- Polyisoprene**, fractionation, by t.l.c., 2C110
- Polymers**, analysis, by pyrolysis - capillary g.c., 6C86
by pyrolysis - g.c., reference materials for, 2A12
review, 2J56
gel chrom., comparison of standards for use in, 3C109
of blends of, automated thermogravim. - titrim., 2A4C
of high, review, 4A2
of industrial, Raman spectrom., 1A1C
of surfaces of, X-ray photoelectron spectrom., 3A1C
 ^{13}C n.m.r. measurements of solid, 2C116
review, 6C79
characterisation, report of symposium on, 6A3
chemical-ionisation pyrolysis - m.s. study of, 4C78
cutting thin specimens of, with sledge microtome, 5J3
detmn. of carbonyl groups grafted on to, spectroph., 3C113
of H_2O_2 in, by chemiluminescence method, 2C111
of P in stabilisers for, colorim., 3C114
g.c. - i.r.-spectrosc. study of pyrolysis products of, 3C76
identn. of additives and monomers in, by g.c. - m.s. and n.m.r., 6C80
secondary-ion m.s. studies of, 5A3C, 6A7C
- Poly(methyl methacrylate)**, ^{13}C n.m.r. measurements of solid, 2C116
fractionation, by t.l.c., 2C110
- Poly(methylphenylsiloxanes)**, analysis of decomposition products of, by g.l.c., 3C117
- Poly(α -methylstyrene)**, fractionation, by t.l.c., 2C110
- Polyolefins**, detmn. of hindered-amine light stabilisers in, by h.p.l.c. and t.l.c., 5C85
differential scanning calorim. studies of fibres of, review, 4C77
- Polyols**, sepn. from carbohydrates and ethanol, by h.p.l.c., 5C17

- Polyoxyethylene derivatives**, detmn. in water, spectroph., 6H57
- Polyoxyethylene glycols**, analysis of mixtures of oligomeric, by h.p.l.c., 1C110
- detmn. in oxyethylation products, by g.l.c., 6C69
- in rumen-fluid filtrate, turbidim., 3D134
- in urine, gel chrom., 5D82
- of number of oxyethylene units in, by V^V oxidation - potentiom., 3C93
- fractionation, by t.l.c., 2C110
- **di(mercaptoacetate)**, detmn., spectroph., 1C17
- **di-(3-mercaptopropionate)**, detmn., spectroph., 1C17
- Poly(pentosan sulphate)**, analysis, exclusion chrom., 2D124
- Polypeptides**, electro-transfer of, from gels to nitrocellulose membranes, 2D225
- from Na dodecyl sulphate - polyacrylamide gels to cellulose nitrate sheets, 3D222
- sepn., by h.p.l.c., 1D182
- of low-mol.-wt., gel electroph., 3D221
- Polyphenols**, sepn., identn. and detmn. in brewing materials, by h.p.l.c., review, 6F57
- Polyphosphates**, detmn. in foods, paper chrom., 2F12
- of average chain length of linear, by isotachopheresis, 5B115
- of PO_4^{3-} in, by enzymic - h.p.l.c. method, 6D39
- Polysaccharides**, see also *Lipopolysaccharides*
- analysis, gel chrom., standard for use in, 3C109
- of alditols in products of reduction of, automated ion-exchange chrom. of borate complexes - fluorim. (or spectroph.), 2D118
- of neutral and amino-sugars derived from, by g.l.c. of corresponding alditol acetates, 2D120
- of products of hydrolysis of, by methanolysis - h.p.l.c. - m.s., 1C24
- of sugars in hydrolysates of cereal-fibre, by h.p.l.c., 6G5
- characterisation, high-performance gel chrom., 1D2
- detection of acidic, in cellulose acetate or agarose gals, staining method for, 4D146
- Polystyrenes**, analysis of surfaces of, by secondary-ion m.s., 1C113
- fractionation, by t.l.c., 2C110
- preparation and gel-chrom. sepn. of u.v.-absorbing deriv. of, 2C109
- pyrolysis - g.c. and pyrolysis - h.p.l.c. - m.s. studies of, 1C112
- pyrolysis - m.s. study of, 1C114
- sepn., by h.p.l.c., 1C111
- hydrodynamic chrom., 5J25
- of oligomers in, supercritical-fluid chrom., 5C82
- Polysulphide, dimethyl**, detmn. in air, by collection on active carbon - g.c. - m.s., 2H27
- Poly(tetrafluoroethylene)**, analysis of surfaces of, by secondary-ion m.s., 1C113
- Poly(tetrahydrofuran)**, fractionation, by t.l.c., 2C110
- Polyurethanes**, analytical applications of resilient foams of, review, 5J11
- characterisation of foams of, by pyrolysis - capillary g.c., 6C86
- characterisation and stability studies of laminate, 2A4C
- detmn. of dimethylacetamide and dimethylformamide in films of, by g.l.c., 3E81
- of extractable 4,4'-methylenebis(aniline) in films of, by h.p.l.c. of dibenzamide deriv., 4C81
- Polyuronides**, detmn. of methoxy-groups in, comparison of methods for, 6F22
- Poly(vinyl acetate)**, FT i.r.-spectrom. study of emission intensity of films of, 1J139
- Poly(vinyl alcohol)**, detmn. in mixtures with carboxymethylcellulose, dextrin, gum and starch, spectroph., 6C78
- Poly(vinyl chloride)**, detmn. of gel content and percentage gel in radiation-cured cross-linked, gel chrom. - liquid chrom., 5C81
- of vinyl chloride oligomers in, by h.p.l.c., 5C10
- pyrolysis - m.s. study of, 1C114
- Pore size analysis**, by mercury porosimetry, 4J146
- Pork**, detection and detmn. of azaperone and its metabolite in, by h.p.l.c., 3F22
- Porphobilinogen deaminase**, see *Enzymes, specific*, uroporphyrinogen I synthase
- Porphobilinogen synthase**, see under *Enzymes, specific*
- Porphyryns**, analysis, by g.l.c. (or g.l.c. - m.s.) of bis(trimethylsilyloxy)-deriv. or of free compounds, 1C68
- of urinary, by h.p.l.c., 3D267
- detmn. in erythrocytes, by h.p.l.c., 1D223
- , **vanadyl**, spectrosc. - thermodynamic study of mixtures of, 3C72
- Positron annihilation**, applications in metal science of, review, 2B2
- Potable spirits**, see *Brandy*; *Whisky*
- Potassium**, detection, reaction for, 5B21
- detmn., by automated controlled-dispersion method, using ion-selective electrode, 2J11
- by selective laser ionisation in flame, 4B33
- by XRF, gelatin-film calibration standard for, 1J98
- ISFET sensor for, 1J189
- micro ISFETs for, 3D25
- potentiom., chemical response time of micro-electrode for, 2J167
- ion-selective electrodes for, 1J190, 6J136
- spectroph., 3B25
- in air, flame photom. or potentiom., with ion-selective electrode, 6H17
- in air-borne dust, with laser micro-probe mass analyser, 3H12
- Potassium**, determination—*continued*
- in barley seeds, by a.a.s., 1G3
- in biol. materials, emission spectrom., standards for use in, 2D34
- in biol. materials *in vivo*, interferences in, 5D13
- in blood, on-line, with chemical-sensitive field-effect transistors, 2D43
- in blood or blood serum, potentiom., effect of erythrocytes in, 4D26
- in blood plasma or blood serum, evaluation of ion-selective electrolyte slides for, 2D38
- in blood serum, potentiom., with ion-selective electrode, 6D24
- stripping potentiom., 3B6
- in electrolyte infusion soln., potentiom., with ion-selective electrode, 2E69
- in erythrocytes, flame photom., effect of sample storage at low temp. in, 5D16
- in fertilisers, emission spectrom., 2G5
- in foods, potentiom., with ion-selective electrode, 5F31
- in hair, by photon activation, 1D19
- in milk powder, by PIXE, 6F34
- in minerals, ores or rocks, by XRF, 5B172
- comparison of methods for, 1B191
- in plants, by n.a.a., 5G2
- by XRF, 1G19
- use of standard samples for control in, 1G18
- in sea-water, stripping potentiom., 3B6
- in sediments, by n.a.a., 3H45
- in serpentine, with electron micro-probe, 5B176
- in silicates, by XRF, 2B91
- in single erythrocytes, by PIXE, 3D19
- in soil, emission spectrom., 2G2
- in triuranium octaoxide, emission spectrom., 5B87
- in urine, potentiom., with ion-selective electrode, 6D24
- in vermiculite, with X-ray micro-probe, 1B194
- in water, by PIXE, 1H46
- in wine, flame spectrom., 4F59
- of exchangeable, in sewage sludge, soil or related materials, flame photom., 4G7
- of whole-body, by n.a.a. *in vivo*, interferences in, 6D20
- sepn. from Cs, by t.l.c., 1B6
- from other alkali metals, by h.p.l.c., 4B29
- from Na, by charge-mosaic dialysis, 1B32
- solvent extraction of, as picrate, with crown ethers having co-ordinating side-chains, 4A7
- with asymmetrical crown ethers, 3A15
- with dibenzo-18-crown-6 and sulphonphthalein dyes, 3B7, 3B25
- with dibromodibenzo-18-crown-6 and dye anions, 3B8
- with poly- and bis-(benzo-12-crown-4)s, 1B31
- Potassium, reagents for**, bromothymol blue - dibenzo-18-crown-6, 3B25
- Na tetraphenylborate, 5B21
- Potassium bromate**, sepn. from KBr, by 'solventing-out' process, 4B34
- Potassium bromide**, detmn. in 'Adonis-bromine' tablets, mercurim., 4E18
- of Cl^- in, by isotope dilution - m.s., 3B24
- sepn. from $KBrO_3$, by 'solventing-out' process, 4B34
- Potassium chlorate**, detmn. of ClO_4^- in, fluorim., 5B138
- sepn. from KCl and $KClO_4$, by 'solventing-out' process, 4B34
- Potassium chloride**, detmn. of B in, spectroph., 2B48
- of Cu in, by a.a.s., 3B30
- sepn. from $KClO_3$ and $KClO_4$, by 'solventing-out' process, 4B34
- Potassium chromate**, detmn., by potentiom. pptn. titration, 4A19
- Potassium dichromate**, shelf life of soln. of, 2F59
- Potassium ferricyanide**, detmn., polarogr., 6B149
- Potassium fluoride**, detmn., potentiom., with Ca^{2+} -selective electrode, 4A18
- Potassium halides**, sepn., by h.p.l.c., 4B29
- Potassium hydroxide**, detmn. of cationic contaminants in conc. soln. of, comparison of methods for, 1B56
- Potassium imino-oxyxanthate**, detmn. of products of reaction of, and of its disulphide, with sulphide minerals, 1B135
- Potassium iodate**, sepn. from KI, by 'solventing-out' process, 4B34
- Potassium iodide**, detmn. of Cl^- in, by isotope dilution - m.s., 3B24
- identn. in expectorant tablets, by t.l.c., 2E66
- sepn. from diprophylline and papaverine hydrochloride, by t.l.c., 1E10
- from KIO_3 , by 'solventing-out' process, 4B34
- Potassium nitrate**, detmn. of Br^- and Cl^- in, potentiom., with ion-selective electrode, with pre-concn. by directional crystallisation, 1B21
- Potassium perchlorate**, sepn. from KCl and $KClO_3$, by 'solventing-out' process, 4B34
- Potassium permanganate**, in redox titrimetry, review, 3A20
- Potassium sulphate**, detmn. of Cl^- in, by isotope dilution - m.s., 3B24
- Potatoes**, analysis, use of standard samples for control in, 1G18
- detection and h.p.l.c. detmn. of melamine in proteins of, 3G25
- detmn. of 1-aminocyclopropane-1-carboxylic acid in, enzymic - spectroph., 5F52
- of Cd in, by a.a.s., 4F5
- of carvone, citral, 1,4-dimethylnaphthalene and pulegone in head-space vapours of treated, by g.c., 3G28
- of chlorbromuron and dinoseb in, by g.l.c., 3G33
- of dithiocarbamate fungicides in, by h.p.l.c., 3G37
- of elements in powdered, by XRF, 1F4

- Potatoes**, determination—*continued*
of glycoalkaloids in, by enzyme immunoassay, 5G8
review of chrom. and colorim. methods for, 5F55
- Potentiometry**, ion-selective, review, 6J129
stripping, analytical signal as function of time of electrolysis and soln. concn. in, 3J151
computerised flow technique for, review, 4J141
of electropositive elements, with solvent optimisation, 3B6
two-stage high-input-impedance instrument for, 6J130
- Pottery**, see *Ceramics*
- Poultry tissues**, detection of stilboestrol in, by t.l.c., 3F26
detmn. of D-amino-acids in, by g.l.c. of *N*-pentafluoropropionyl deriv. of isopropyl esters, 1F7
of bambamycin in, by t.l.c. - microbiol., 3F25
of dinitolmide, ethopabate, sulfamonomethoxine, sulfaquinoxaline and sulphadimethoxine in, by h.p.l.c., 4D117
of ochratoxin A in kidney, by h.p.l.c. of *O*-methyl - methyl ester deriv., 5F36
- Povidone-iodine**, detmn. of I_2 and I_3^- in soln. of, potentiom., 4E85
- Pralidoxime mesylate**, h.p.l.c. study of stability of, 4E83
- Pramipexetam**, detmn. in blood plasma, by g.l.c., 6D131
- Praseodymium**, detmn., gravim., 4B81
spectroph., 4B82
in copper, spectroph., with sepn. by amalgam electrolysis, 6B36
in hydriding alloys, emission spectrom., 2B158
in presence of Ce, La, Nd and Sm, by h.p.l.c. - spectroph., 2B63
of other rare-earth metals, by t.l.c. - spectroph., 6B68
in yttrium oxide, emission spectrom., 2B62
sepn. from Dy, magneto-paper electroph., 3B15
solvent extraction of, as carboxylates or aminocarboxylates, with $CHCl_3$ in presence of amines, 1B88
- Praseodymium, reagents for**, arsenazo III, 2B63
chlorophosphonazo III, 6B68
tetraethylenepentaminehexa-acetic acid, 4B82
N-p-tolylloxamic acid, 4B81
- Prealbumin**, detmn. in blood serum, automated rate-immunonephelom., 3D252
- Precious metals**, see *Noble metals*
- Prednisolone**, detmn. in blood plasma, by h.p.l.c., 3D72
of radio-purity of [3H]-, by h.p.l.c., effects of isotopic fractionation in, 5E25
- Prednisone**, detmn. in blood plasma, by h.p.l.c., 3D72
- 9 β ,10 α -Pregna-4,6-dien-3-one, 20 α -hydroxy-**, detmn. in blood plasma, by g.l.c. of heptafluorobutyl deriv. - m.s., 3D71
- 5 β -Pregnane-3 α ,20 β -diol glucuronide**, analysis, liquid chrom. - negative-ion chemical-ionisation m.s., 5J52
- Pregn-4-ene-3,20-dione, 17,21-dihydroxy-**, detmn. in presence of other C_{21} steroids, by h.p.l.c., 1D142
- , **17 α ,21-dihydroxy-**, detmn. in biol. fluids, by h.p.l.c., 6D190
- , **11 β ,18,21-trihydroxy-**, detmn. in presence of other C_{21} steroids, by h.p.l.c., 1D142
- in urine, by h.p.l.c., automated, 4D178
- Pregnenolone**, identn. and detmn. in extracts from microbial conversion of sterols, mass-analysed ion-kinetic-energy spectrom., 2D171
- Prenylamine**, analytical data for, and for its lactate, 4E62
- Preservatives**, analysis of raw materials for cosmetics, review, 6C71
- Primaquine**, detmn., by photochem. - fluorim. method, 3E68
titrim., 2E60
- in blood plasma, spectroph., 4D115
- Primidone**, detection in blood serum, solid-phase reagent strip for, 6D49
detmn., by EMIT assay, logit - log. calibration curves in, 1D52
in blood plasma, by h.p.l.c., 5D26, 5D46
in blood serum, by enzyme immunoassay with Abbott-VP Analyzer, 2D76
by h.p.l.c., 2D75, 3D77
- Proanthocyanidins**, detmn. of degree of polymerisation of, spectroph., 1D218
sepn. from related compounds and from each other, by h.p.l.c., 4D270
- Probenecid**, detmn. in cerebrospinal fluid, by h.p.l.c., sample preparation for, 2D100
- Procainamide**, detmn. in blood plasma or blood serum, with its *N*-acetyl deriv., by h.p.l.c., 4D50
in blood serum, with its metabolite, liquid chrom., 6D110
- Procaine**, detmn., spectroph., 1E11
in pharmaceutical preparations, indirect polarogr., 5E35
nitritom., 5E13
identn. in heroin powder, by t.l.c., 1E22
— **hydrochloride**, detmn., by oscillograph. titration, 3E3
Prochlorperazine, detmn. in blood plasma, by r.i.a., 5D53
— **dimalate**, detmn., titrim., 6E38
- Procionide**, detmn. in pharmaceutical preparations, by h.p.l.c., 1E42
automated, 3E4
- Procydione**, detmn. in must or wine, by h.p.l.c., 3G35
- Proflerin**, detection and detmn., by isotachopheresis, 6E35
- Profluralin**, sepn. from related herbicides, by g.c., 1G29
- Progesterone**, detmn., by chemiluminescence immunoassay, 3D277
by enzyme immunoassay, automated, 2D31
by r.i.a., 3D187, 4D180
in blood plasma, accuracy and precision of results in, 4D172
by immunoadsorption - g.c. - m.s., 2D173
- Progesterone**, determination in blood plasma—*continued*
by r.i.a., use of reference plasma samples in, 2D11
in blood plasma or blood serum, by enzyme immunoassay, 4D181
evaluation of r.i.a. kits for, 6D188
in blood serum, milk fat or saliva, by enzyme immunoassay, 3D188
in oil soln., spectroph., 2E29
in presence of other C_{21} steroids, by h.p.l.c., 1D142
in testicular perfusate, by h.p.l.c., 2D180
identn. and detmn. in extracts from microbial conversion of sterols, mass-analysed ion-kinetic-energy spectrom., 2D171
—, **17 α -hydroxy-**, detmn. in presence of other C_{21} steroids, by h.p.l.c., 1D142
in testicular perfusate, by h.p.l.c., 2D180
extraction from blood plasma, gel chrom., 6D189
- Proinsulin**, purification of porcine, by h.p.l.c., 2E35
- Prolactin**, detmn. in blood serum, by enzyme immunoassay, 4D249
by r.i.a., 2D244, 2D245
- Protease**, see *Enzymes*, specific, proline dipeptidase
- Proline**, detmn. in brain tissue, by g.l.c. of pentafluoropropionyl deriv. of hexafluoropropyl ester - m.s., 1D175
of D-, in foods, by g.l.c. of *N*-pentafluoropropionyl deriv. of isopropyl ester, 1F7
sepn. of enantiomers of, ion-exchange chrom., 6J42
—, **hydroxy-**, detmn. in blood serum, automated colorim., 4D216
in urine, colorim., interference by iohalamate in, 1D176
of free and total, in urine, spectroph., 5D138
- Proline dipeptidase**, see under *Enzymes*, specific
- Promazine**, detmn., titrim., 6E38
- Promethazine hydrochloride**, detmn. in polyoxyethylene glycol, by g.l.c., 6E39
in presence of its degradation products, by h.p.l.c., 6D94
- Propafenone**, detmn. in biol. tissues or blood serum, by h.p.l.c., 3D113
- Propane**, detmn. in natural gas, by m.s., 2C60
- , **tetrabromodiphenylol-**, see *Phenol*, isopropylidenebis(dibromo-
- Propane-1,3-diamine**, detmn. in foods, with amino-acid auto-analyser, 2F4
- Propane-1,2-diol**, detmn. in flavour bases, flavoured and natural wines, by g.c., 4F61
- Propane-1-thiol**, detmn., stripping voltamm., 3C16
- Propanil**, detmn. in soil, by g.l.c. of iodo-deriv., extraction method for, 2G10
estimation of detection limit of, after t.l.c., 3A4
- Propan-1-ol**, detmn. in air, by g.c., low-temp. sampling technique for, 1J6
in whisky, by g.l.c., 4F63
of H_2O in, spectroph., 5C13
- , **1-phenyl-1-(α,α,α -trifluoro-*m*-tolyl)-**, see *Flumecinol*
- , **1-phenyl-1-(2,5-xylyl)-**, detmn., spectroph., 6E3
- Propan-2-ol**, detmn. in gasoline, by g.c., 2C66
in gasoline blends, by g.c., 1C78
- , **3-(2-nitroimidazol-1-yl)-1-(piperidino)-**, detmn. in blood plasma or urine, by h.p.l.c., 5D78
- Propanol derivatives, dihalo-**, analysis of mixtures of, by g.c. - m.s., 2C20
- Propazine**, detmn. in water, by g.l.c. or h.p.l.c., 1H83
- Propene**, detmn. in gases with simple molecular structure, optoacoustic spectrom., 4H4
- Propenoic acid derivatives, chloro-**, sepn. of methyl esters of, by g.l.c., 2C31
- Propnam**, detmn., liquid chrom. - m.s., 1J51
- Propionaldehyde**, detmn. in car-exhaust gases, by g.l.c., 2C73
- Propionamide, N-benzyl-3-chloro-**, detmn., by KOH mineralisation - mercurim., 5E1
- Propionate**, detmn., ion-exclusion chrom., 1E79
—, **3-methylthio-**, detmn. in urine, by g.l.c., 3D161
- Propionic acid**, detmn., potentiom., use of sulphur nitride electrode for, 2J166
in lactic acid-fermented vegetables, by h.p.l.c., 5F51
in silage, by h.p.l.c., 3G23
—, **2-(4-benzoylphenyl)-2-methyl-**, t.l.c. control of synthesis of, 1E62
—, **2,3-diamino-**, derivatives, differentiation of N^2 - and N^3 -substituted, by t.l.c. of dansyl deriv., 2D215
—, **3-(3,5-di-*t*-butyl-4-hydroxyphenyl)-, methyl ester**, detmn. in presence of pentaerythritol tri- and tetrakis-3-(3,5-di-*t*-butyl-4-hydroxyphenyl)propionate, by t.l.c. - densitom., 1C117
—, **2-(3,4-dihydroxycinnamoyl)-3-(3,4-dihydroxyphenyl)-**, see *Rosmarinic acid*
—, **3-(3-dimethylaminomethyleneamino-2,4,6-tri-iodophenyl)-**, sodium salt, see *Bilimin*
—, **2-mercapto-**, detmn., titrim., 6C27
—, **3-mercapto-**, detmn., titrim., 6C27
—, **phenyl-, anhydride**, detmn. of free acid in, i.r. spectroph. or titrim., 1C30
- Propionic acid derivatives, halogeno-**, sepn. of alkyl esters of, from halogenobutyrate and from each other, by g.c., 6C21
- Propoxur**, detmn. in fruit or vegetables, by g.c., 6G31
with its metabolite, by t.l.c., 4G21
in rice, by g.l.c., 6G37
sepn. from other carbamates, by t.l.c., 1G36
of urinary metabolites of, by h.p.l.c., 5D85
- Propranolol**, detmn., by r.i.a., 3D99, 3D100
in peritoneal dialysis fluid, by h.p.l.c., 6E49

- Propranolol**, determination—*continued*
in pharmaceutical preparations, room-temp. phosphorim., 6E50
sepn. of enantiomers of, by h.p.l.c., 1E63
— **hydrochloride**, detmn., titrim., 3E51
in pharmaceutical preparations, by h.p.l.c., 4E57
- Propylamine**, detmn. in presence of other primary amines, by h.p.l.c. of phthalaldehyde deriv., 5C21
- Propylthiouracil**, detmn. in blood, by h.p.l.c., 3D119
- Prostacyclin**, detmn. of metabolites of, in blood plasma, by r.i.a., 5D107
- Prosta-2,13-dienoic acid, 11,15-dihydroxy-16,16-dimethyl-9-oxo-**, detmn. in blood plasma, by g.l.c. of t-butylidimethylsilyl ether of methyl ester, 4D68
- Prostaglandin synthase**, see under *Enzymes, specific*
- Prostaglandins**, analysis of mixtures obtained during production of 11-deoxy-deriv. of E_1 , by g.l.c. and h.p.l.c., 3E33
detmn., by g.c. of t-butylidimethyl silyl ethers - m.s., 1D125
by g.l.c. of TMS deriv. of methyl esters, 4D158
by r.i.a., 3D166
of 11-deoxy-13,14-dihydro-15-oxo-11,16-cyclo-deriv. of E_2 , detmn. in blood plasma, by r.i.a., 6D170
of 13,14-dihydro-15-oxo-deriv. of E_2 , by g.l.c. of t-butylidimethylsilyl deriv. of methoxime, 4D160
of 13,14-dihydro-15-oxo-deriv. of F_{2a} and 6-oxo-deriv. of F_{1a} , in blood plasma, by r.i.a., 6D169
of E_2 and F_{2a} , in gastrointestinal fluids, by g.l.c. - m.s. or r.i.a., 4D159
of F_{2a} and of 6-oxo-deriv. of F_{1a} , by g.c. - chemical-ionisation m.s., 4D69
of 6-oxo-deriv. of F_{1a} , by g.c. - m.s., 6A2C
by r.i.a., 5D107
in urine, by h.p.l.c. - r.i.a., 1D126
isolation, characterisation and detmn., by h.p.l.c., review, 2D148
sepn. of E_2 and F_{2a} and their 15-oxo- and 13,14-dihydro-15-oxo-deriv., from related compounds and from each other, by t.l.c., 2D151
of labelled and unlabelled, from other arachidonic acid metabolites and from each other, by h.p.l.c., 3D164
sepn. and detmn. in biol. fluids, by g.c. - chemical-ionisation m.s., 2D149
in gingiva, by t.l.c. (or h.p.l.c.) - g.c. - m.s., 6D167
sepn. and identn., by t.l.c., 6D168
- Prostanoic acid, 11 α -hydroxy-9,15-dioxo-2,3,4,5,20-pentanor-19-carboxy-**, detmn. in urine, by g.c. of bismethoxime TMS ether deriv. of methyl ester - m.s., 2D152
- Prostanoids**, analysis, by g.c. - negative-ion chemical-ionisation m.s., 3D165
- Prostatic tissue**, assay of creatine kinase and lactate dehydrogenase isoenzymes in, effects of sample storage and sample dilution in, 6D269
- Proteases**, see under *Enzymes, specific*
- Protein kinases**, see under *Enzymes, specific*
- Proteins**, see also *Glycoproteins; Lipoproteins*
analysis, by two-dimensional t.l.c., review, 5J74
gel electroph. - electro-blotting, contrast enhancement and protection of electro-blots in, 5J69
of amino-acids in, preparation of hydrolysates for, 4F10
of milk, by h.p.l.c., 2F26
of [3H]-, gel electroph. - effect of Coomassie blue staining on sensitivity of fluorogr. detection in, 6D227
of muscle, two-dimensional gel electroph., review, 3D236
of peptides in digests of, by fast-atom-bombardment m.s., 6A7C
of tissue, gel electroph., 4J55
analytical aspects of chemical modifications of food, review, 3F8
characterisation, deriv. spectrosc., review, 3D6
high-performance gel chrom., 1D2
of peptides in hydrolysates of, by ultra-thin-layer isoelectric focusing, 5F10
concn., by pptn. as Na deoxycholate complex - dialysis - freeze-drying - ion-pair extraction, 4D232
detection, by chemiluminescence immunoassay, 5D162
in agarose gels, sensitive silver stain for, 5D159
of high-mol.-wt., on large-pore polyacrylamide gels, silver-staining method for, 5D160
of radio-labelled, in polyacrylamide gels, limitations of fluorography for, 4D239
on cellulose nitrate sheets, sensitive enzymic method for, 4D236
detection and detmn. of cytosolic fatty acid-binding, in gel-chrom. fractions, by ligand-binding method, 4D246
detection and h.p.l.c. detmn. of melamine in potato, 3G25
detmn., acceptable limits for precision and accuracy in, 3D3
by light-scattering immunoassay, review, 1D194
by NAD $^+$ -labelled immunoassay, 6D230
Cerenkov photom., 3D247
evaluation of Hitachi 705 analyser for, 4D10
turbidim., comparison of sensitivities of methods for, 2D243
u.v.spectroph., reappraisal of Waddell method for, 3D246
with Cobas-Bio centrifugal analyser, 2D20
in blood serum, effect of lipaemia in SMAC method for, 2D19
in cerebrospinal fluid, by kinetic - spectroph. method, 2D240
comparison of methods for, 4D244
comparison of spectroph. methods for, 6D228
interference in *aca* method for, 2D241
- Proteins**, determination—*continued*
in cerebrospinal fluid or urine, comparison of spectroph. and turbidim. methods for, 6D229
evaluation of benzethonium chloride method for, 2D242
in cocoa powder, near-i.r. reflectance spectroph., 1F40
in feeding-stuffs, by flow-injection - spectroph. method, 5G17
in fish tissues during freeze-storage, review, 3F27
in foods, review, 3F1
in milk, effects of $K_2Cr_2O_7$ and sample-storage time in, 2F25
in milk powder, with InfraAlyzer 400, 6D37
in presence of chlorophyll, comparison of methods for, 4D243
in products of translation of messenger RNA, rocket immunoelectroph., 5D170
in sorghum, automated colorim., 4G4
in urine, comparison of methods for, 3D243
in wheat, near-i.r. reflectance spectroph., 1G6, 1G7
in wheat or flour, near-i.r. spectroph., 1F17
in whole fatty tissues, spectroph., 4D242
of agarose-immobilised, spectroph., 3D245
of α -amylase-inhibiting, continuous-flow spectroph., 5D163
of γ -carboxyglutamic acid in, by h.p.l.c. of phthalaldehyde deriv., 5D141
of C-reactive, in blood serum, immunoturbidim., with micro-centrifugal analyser, 4D259
of fluorinated amino-acids in, by h.p.l.c. of phthalaldehyde deriv., 5D139
of high-affinity folate-binding, selection of serum albumin reagent for, 5D165
of methionine and its sulphoxide in, by g.c., as thiocyanatomethane, 1G21
of PO_4^{3-} bound by, automated continuous-flow colorim., 5D152
of phospho-serine, -threonine and -tyrosine in, with automatic amino-acid analyser, 3D214
of retinol-binding, in blood serum, effects of sample-collection time and of sample treatment in, 6D266
in blood serum or urine, immunonephelom., 6D246
of salivary acidic proline-rich, and of their N- and C-terminal fragments, immuno-radiom., 6D231
of SCN^- in soln. of, spectroph., 5D151
of total extractable, in meat, spectroph., 6F29
h.p.l.c. studies of, review, 1D183
h.p.l.c. study of hydrophobic, 5D156
isolation of amino-acids from hydrolysates of, as arenesulphonates, 3D210
of Ca^{2+} -binding, by h.p.l.c., 3D248
low-temp. studies of resonance Raman studies of frozen soln. of, 6J106
peptide mapping of, gel electroph. - enzymic hydrolysis - gel electroph., 3D238
purification from biol. fluids, by chromatofocusing and isoelectric focusing, 6D224
radio-iodine labelling of, 3D233
recovery of, from polyacrylamide gels, by discontinuous conductivity-gradient method, 3D242
removal of detergents from soln. of, by centrifugation, 5D150
sepn., by high-performance gel filtration, 2D234
by h.p.l.c., 1D192, 3D234, 3J20
coupled multiple-column system for, 4D233
by h.p.l.c. or gel chrom., 5D157
by isoelectric focusing, visualisation method for, 2D237
gel chrom., artefactual peak in, 5D154
gel electroph., artefacts due to 2-mercaptoethanol in, 3D241
effects of acrylamide concn. and of cross-linking in, 3D240
ion-exchange chrom., 3D235, 5D155
liquid chrom., 1D233
review of FPLC technique for, 1D190
with Pharmacia FPLC system, 2D233
two-dimensional gel electroph., 3D239
from affinity adsorbent, by isotachopheresis, 4D235
of acidic and basic, gel electroph., 4J56
of hydrophobic muscle-tissue, by gel filtration, 1D191
of cereal, by h.p.l.c., 1G5
of urinary, on Mono Q anion-exchange resin, 4D234
of whey, by gel filtration, 4F48
sepn. and detection in cerebrospinal fluid, by isoelectric focusing - immunofixation, 6D226
sepn. and detmn., by gel filtration, simplified calibration procedure for, 5D153
by isoelectric focusing - gel electroph., silver-staining method for, 6D225
gel electroph., 5D158
using silver-staining method, 4D237
with chromophoric labelling, 2D235
gel electroph. - densitom., 5J70
in milk, gel electroph., 3F33
liquid chrom., 3F32
of fish, gel electroph. - densitom., 4F39
sepn., identn. and detmn. in brewing materials, by h.p.l.c., review, 6F57
study of binding to drugs of, by flow-injection - fluorim. method, 1D48

Proteins—continued

- transfer of DNA-binding, from polyacrylamide gels to nitrocellulose filters, 5D161
- X-ray micro-analysis and detmn. of three-dimensional structure of, 2D2
- , **blood-plasma**, detection and detmn. in meat products, immunoturbidim., 4F33
- detmn. of pregnancy-associated A, by r.i.a., 1D212
- , **blood-serum**, detmn., by immunoassay using differential pulse anodic-stripping voltammetry, 1D196
- comparison of methods for, 2D239
- interference by sulphasalazine in Du Pont *aca* method for, 3D244
- laser nephelom., 4D240
- of non-enzymically glucosylated, spectroph., 6D248
- of Zn distribution in, affinity chrom. - a.a.s., 4D28
- procedure for immediate visualisation of, in polyacrylamide gels, 2D236
- sepn., by isoelectric focusing - gel electroph., 3D237
- Proteoglycans**, analysis, by gel filtration, 2D126
- Prothrombin**, detmn., by r.i.a., 6D234
- Protocatechuic acid**, identn. in plants, by h.p.l.c., 5G4
- Protoporphyrinogen oxidase**, see under *Enzymes, specific*
- Pseudoephedrine**, detmn. in cough mixture, by h.p.l.c., 3E74
- sepn. and detmn. of enantiomers or diastereoisomers of, by h.p.l.c., 2E17
- Pseudomonic acids**, m.s. and liquid chrom. - m.s. studies of, 2E21
- Pseudouridine**, detmn. in blood serum, by h.p.l.c., 4D286
- Psilomelane**, sepn. from manganite, by selective dissolution, 4B156
- Psoralene drupacea**, detmn. of angelicin and psoralen in fruits of, by t.l.c. - u.v. spectroph., 1E48
- Psoralen**, detmn. in pharmaceutical preparations, by t.l.c. - u.v. spectroph., 2E39
- in *Psoralene drupacea* fruits, by t.l.c. - u.v. spectroph., 1E48
- , **8-methoxy-**, see *Methoxysalen*
- , **trimethyl-**, see *Trioxsalen*
- Pterin derivatives**, cyclic-voltamm. study of, 6D265
- detmn. in biol. tissues, liquid chrom., 4D292
- sepn. and detmn. in biol. tissues or urine, by h.p.l.c., 6D263
- Pteric acid**, 4-amino-4-deoxy-*N*¹⁰-methyl-, sepn. from methotrexate and its analogues, by h.p.l.c., 3E69
- Pulegone**, detmn. in head-space vapours of treated potatoes, by g.c., 3G28
- in peppermint oil, plants or soil, by t.l.c. - densitom., 6C70
- Pullulanase**, see under *Enzymes, specific*
- Pulse-height analysis**, stabilisation scheme for computerised systems for, 1J5
- Purine**, 6-amino-2-anilino-9- β -*D*-ribofuranosyl-9*H*-, detmn. in blood serum or urine, with its metabolite, by h.p.l.c., 2D90
- Purine alkaloids**, identn. and detmn. in pharmaceutical preparations, by t.l.c. - densitom., 1E30
- Purine derivatives**, detmn. in foods, enzymic - u.v. spectroph., with centrifugal analyser, 1F6
- sepn., by h.p.l.c., 4D281
- Puromycin**, detmn., by enzyme immunoassay, 3D66
- Putrescine**, detection, by h.p.l.c. of deriv. formed with 4-fluoro-7-nitro-benzofurazan, 5D117
- detmn. in blood-plasma hydrolysate, by h.p.l.c., 3D198
- in foods, with amino-acid auto-analyser, 2F4
- in presence of other bacterial amines, by g.c., 6D195
- in urine, by t.l.c. of dansyl deriv. - fluorim., 6D196
- with automated amino-acid analyser, 5D118
- , **monoacetyl-**, detmn. in urine, with automated amino-acid analyser, 5D118
- Pyranol tartrate**, detmn. in feeding-stuffs, by h.p.l.c., 5G23
- Pyrazine derivatives**, identn. in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
- , **alkyl**, detmn. in air, by collection on active carbon - g.c. - m.s., 2H27
- , **methyl**, sepn. from their 1-oxides and 1,4-dioxides and from each other, liquid chrom., 4C42
- Pyrazoline-5-thione**, 4-benzoyl-3-methyl-1-phenyl-, as analytical reagent, 1A9
- Pyrazolin-5-one derivatives**, identn. in pharmaceutical preparations, by t.l.c., 3E5
- Pyrene**, detmn. in presence of benzo[a]pyrene and dimethylbenzanthracene, by t.l.c. - i.r. spectroph., 6J53
- , **1-nitro-**, detmn. in presence of related compounds, phosphorim., 4C40
- Pyrene-3,6,8-trisulphonic acid**, 1-hydroxy-, trisodium salt, as fluorescent acid - base indicator, 2A14
- Pyrethrins**, detmn., by h.p.l.c., 1G40
- in aerosol formulations, by h.p.l.c., 5G33
- of I and II, in pyrethrum extracts, by g.l.c., 4G23
- Pyrethrum**, analysis of extracts of, by g.l.c., 4G23
- Pyridin-2-amine**, detmn. in presence of diethylamine, non-aq. potentiom., 1C49
- Pyridin-4-amine**, detmn. in blood serum or cerebrospinal fluid, by h.p.l.c., 3D131
- Pyridine**, detmn., with modified thermal energy analyser, 1C34
- in presence of diethylamine, non-aq. potentiom., 1C49
- sepn. from related compounds, liquid chrom., 4C42
- **1-oxide**, sepn. from related compounds, liquid chrom., 4C42

- Pyridine derivatives**, detmn. in water, by h.p.l.c., with pre-concn. on Bamberlite XAD-8 resin, 3H78
- identn. in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
- sepn., by h.p.l.c., 2J19
- , ***N*-methoxycarbonyldihydro-**, sepn. of isomeric, by t.l.c. or liquid chrom., 6D137
- Pyridine-3,4-diamine**, detmn. in blood serum or cerebrospinal fluid, by h.p.l.c., 3D131
- Pyridine-2,3-dicarboxylic acid**, detmn., fluorim., 5D124
- in kidney or liver tissue, u.v. spectroph., 1D163
- Pyridine-2,4-dicarboxylic acid**, detmn., polarogr., 6C43
- Pyridine-2,6-dicarboxylic acid**, detmn. in bacterial spores, u.v. deriv. spectros., 5D125
- Pyridinium chloride, hexadecyl-**, detmn., potentiom., 6E7
- spectroph., 1E1
- in pharmaceutical preparations, by pyrolysis - g.c., 1E70
- , **1-[2-(3-pentyloxyphenylcarbamoyloxy)cyclohexyl]-**, see *Pentacaine*
- Pyridinolcarbamate**, detmn. of content uniformity of preparations of, polarogr. or u.v. spectroph., 1E5
- Pyridoindole derivatives**, sepn., by g.l.c., 1J77
- Pyrido[2,3-*d*]pyrimidine-6-carboxylic acid**, 8-ethyl-5,8-dihydro-5-oxo-2-(1-pyrrolidinyl)-, see *Pirimidic acid*
- Pyridostigmine**, detmn., by enzymic inhibition - potentiom., 1D79
- Pyridoxal hydrochloride**, detmn. in biol. materials, ion-exchange chrom. - fluorim., 4D297
- **phosphate**, detmn. in biol. materials, ion-exchange chrom. - fluorim., 4D297
- in biol. tissues, blood or urine, enzymic - radiom., 1D247
- in blood plasma, enzymic - potentiom., with CO₂-selective electrode, 2D277
- enzymic - radiom., 4D298
- Pyridoxamine dihydrochloride**, detmn. in biol. materials, ion-exchange chrom. - fluorim., 4D297
- **phosphate hydrochloride**, detmn. in biol. materials, ion-exchange chrom. - fluorim., 4D297
- Pyridoxic acid**, detmn. in biol. materials, ion-exchange chrom. - fluorim., 4D297
- Pyridoxine**, detmn., by chemiluminescence method, 1C8
- in pharmaceutical preparations, by h.p.l.c. with automatic continuous-flow sample preparation, 4E29
- by t.l.c. - densitom., 3E28, 3E29
- **hydrochloride**, detmn. in biol. materials, ion-exchange chrom. - fluorim., 4D297
- in pharmaceutical preparations, spectroph., 3E27
- **phosphate**, detmn. in biol. materials, ion-exchange chrom. - fluorim., 4D297
- 4-Pyridoxolactone**, detmn. in urine, fluorim., 4D299
- Pyrimidine derivatives**, sepn., by h.p.l.c., 2J19
- sepn. and identn. in biol. materials, by h.p.l.c. with multiple detection, 4D291
- Pyrite**, detmn. in coal, by a.a.s., 1B197
- in coal or lignite, thermomagnetogravim., 2A4C
- in minerals, ores or rocks, by thermal methods, 2A4C
- in sediments, by a.a.s., 1B196
- of Co in, oscillography, 6B159
- of Se in, u.v. spectroph., 1B138
- Pyrolusite**, sepn. from manganite, by selective dissolution, 4B156
- Pyrolysis**, comparison of statistical methods for handling quantitative data generated by, 1A7
- Pyromellitic dianhydride**, detmn. in presence of parent acid, spectroph., 4C32
- Pyrophosphatase**, see under *Enzymes, specific*
- Pyrophosphate**, detmn. in presence of other anions, by g.l.c. of *t*-butyl-dimethylsilyl deriv. - m.s., 2B15
- in water, ion-exchange chrom., 5H71
- Pyroxenite**, detmn. of noble metals in, by charged-particle activation, 3B12
- Pyrrrole derivatives**, identn. in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
- Pyrrrolidine**, detmn., by chemiluminescence immunoassay, 4D201
- in fish or meat products, by h.p.l.c., 1F20
- , **1-[2-(indol-3-yl)ethyl]-**, detection of 2-(indol-3-yl)-1-(1-pyrrolidinyl)-ethanol in, 1E59
- Pyrrrolidine-2-carboxylic acid**, 5-oxo-, detmn. in biol. tissues, by h.p.l.c. of 4-nitrophenacyl ester, 5D123
- Pyrrrolidine-2,5-dione**, 1-amino-3-(3-bromophenyl)-, detmn. in blood, by g.l.c., 1D67
- Pyrrrolidin-2-one**, identn. as decomposition product of 1-methylpyrrrolidinone, by g.c. - m.s., 3C66
- , **1-methyl-**, detmn. in water, by h.p.l.c. 3C67
- of H₂O in, i.r. spectroph., 3C108
- identn. of decomposition products of, by g.c. - m.s., 3C66
- Pyrrrolizidine alkaloids**, sepn. and detmn. of macrocyclic, in *Petasites japonicus*, by h.p.l.c., 2E14
- Pyruvate**, detmn., bacteria-based electrode for, 6J154
- in muscle tissue, by bioluminescence method or fluorim., 4D13
- , **phosphoenol-**, detmn. in muscle tissue, by bioluminescence method or fluorim., 4D13
- Pyruvic acid**, detmn. in silage, by h.p.l.c., 3G23

Q

- Qualidil**, detmn., colour reactions for, 4E54
spectroph., 6E63
- Qualitative analysis**, application of binomial distributions to quality assurance in, 6A13
- Quartz**, detmn. in crushed material or thin sections, laser methods for, 4B207
of Co, Mn and P in, by n.a.a., 6B92
of elements in, by XRF, review, 4B172
thermoluminescence of, and its use in archaeology, 2A4C
- Quercetin**, detection, by t.l.c., 3D265
— **glycosides**, detection, by t.l.c., 3D265
- Quercitrin**, identn. and detmn. in preparations of medicinal plants, comparison of methods for, 3E19
- Quinalbarbitone**, detection in post-mortem blood, by g.l.c., 1D62
detection and detmn. in blood serum, with EMIT-st system, 1D61
detmn. in blood, by g.l.c., 1D65
in presence of butobarbitone and cyclobarbitone, by h.p.l.c., 5J47
in saliva, by g.l.c., 3D56
in urine, in activation of lysozyme in EMIT-dau method for, 1D51
- Quinazoline-2-carboxaldehyde**, **6-chloro-4-phenyl-**, detection in presence of oxazepam, by t.l.c., 4E42
- Quinazolin-6-sulphonamide**, **7-chloro-1,2,3,4-tetrahydro-4-oxo-2-phenyl-**, see *Fenquizone*
- Quinic acid**, detmn. in coffee, by isotachopheresis, 3F42
—, (**hydroxycinnamoyl-**), detmn. of isomers of, in vegetable extracts, by h.p.l.c., 5G5
- Quinic acid derivatives**, **dicafeoyl-**, identn. as source of astringent flavour in coffee, by h.p.l.c., 1F38
- Quinidine**, detmn., titrim., 2E60
in blood plasma, comparison of methods for, 6A5C
in blood plasma or blood serum, by h.p.l.c., 4D50
in blood serum, comparison of methods for, 4D54
sepn. from other cinchona alkaloids, by h.p.l.c., 4E10
- Quinine**, detmn., titrim., 2E60
spectroph., 3E13
in hair preparations, by h.p.l.c., 2E9
in presence of amidopyrine, codeine and ephedrine, by isotachopheresis, 2E2
sepn. from other cinchona alkaloids, by h.p.l.c., 4E10
- Quinol**, analysis of products of Cu^{2+} -catalysed oxidation of, by h.p.l.c., 3E70
detmn., by kinetic - spectroph. method, 1C9
coulom., with Cr^{VI} in org. media, 1A20
iodim., by amplification reactions, 3C48
potentiom., with hydantoin deriv. in non-aq. media, 1A16
—, **t-butyl-**, detmn. in dairy products, by g.l.c., 4F50
in fats or fatty oils, by BSI g.l.c. method, 5F74
in lard or oil, collaborative study of h.p.l.c. method for, 5F75
in soya-bean oil, by g.l.c., 4F76
identn. in fats or fatty oils, by BSI t.l.c. method, 4F76
- Quinoline**, sepn. from other aza-arenes, by t.l.c., 1C65
from related compounds, liquid chrom., 4C42
— **1-oxide**, sepn. from related compounds, liquid chrom., 4C42
- Quinoline, tetrahydro-, derivatives**, polarogr. and voltamm. studies of thioamides, 4E79
- Quinoline derivatives**, detmn. in quinoline yellow, by h.p.l.c., 6F14
sepn., by t.l.c., 6J50
—, **taethyl-**, sepn. from other aza-arenes and from each other, by t.l.c., 1C65
- Quinoline-3-carboxylic acid**, **1-ethyl-6-fluoro-1,4-dihydro-4-oxo-7-(4-methylpiperazinyl)-**, see *Pefloxacin*
- Quinoline-5-sulphonic acid**, **8-hydroxy-7-iodo-**, extraction from aq. soln. of, with liquid anion exchangers, 6A19
—, **8-hydroxy-7-phenylazo-**, potentiom. acid - base properties of, and of its chlorinated deriv., 3A18
- Quinoline-8-thiol**, detmn., spectroph., 5C7
- Quinolinic acid**, see *Pyridine-2,3-dicarboxylic acid*
- Quinolin-8-ol**, detmn., potentiom., with hydantoin deriv. in non-aq. media, 1A16
- Quinolin-2-one**, **3-amino-6-bromo-4-(2-chlorophenyl)-1H-**, identn. in phenazepam, by t.l.c., 6E42
- Quinolizinium salts**, as reagents for nucleophiles, 1A13
- Quinones**, detmn. in air, by g.c. - negative-ion chemical-ionisation m.s., 2H34
of polycyclic, in air-borne dust, by g.c. and g.c. - m.s., 4H26
identn. of polycyclic aromatic, in emissions from straw or wood combustion, liquid chrom. - g.c. - m.s., 1H37
—, **5-hydroxy-**, sepn., paper chrom., with detection by CrCl_3 soln., 1C12

R

- RDX**, see 1,3,5-Triazine, hexahydro-1,3,5-trinitro-
- RGH-3395**, see *Propan-1-ol*, 2-phenyl-1-(2,5-xylyl)-
- RGH-4615**, see 1,2,4-Oxadiazin-5-one, 2-acetyl-3-phenyltetrahydro-
- RNA**, see *Nucleic acids*, *ribo-*

Radiations, see also *Neutrons*

- detection, see also *Scintillation counting*
count-rate performance of photomultiplier for use with NaI(Tl) crystal, 2J160
estimation and correction of counting dead-time in Geiger - Mueller tubes for, 2J158
evaluation of CR-30 as solid-state track detector for, 5J143
halogen-filled Geiger - Mueller counters for, 6J124
improved sensitivity of thermoluminescent phosphors for, 3J129
industrial applications of semiconductor devices for, 5J97
performance and applications of HgI₂ devices for, review, 5J102
radiation damage in semiconductor devices for, review, 5J145
signal processing for semiconductor devices for, review, 5J146
stabilisation scheme for computerised pulse-height analysers for, 1J5
—, **alpha-**, detection in process soln. at fuel reprocessing facility, on-line instruments for, 5B90
of air-borne, using nuclear-track detector, 3J130
—, **gamma-**, detection, *in situ* methods for, review, 5J144
inspector - instrument interface in portable instrumentation for, 3J128
- Radioactivation analysis**, use of minicomputer for processing of γ -spectra obtained in, 6J122
use of Poisson function in data-processing in, 2A9
—, **by neutrons**, automated fast cyclic-activation system for, 3J127
calculation of detection limits in instrumental, 6B8
chrom. sepn. and pre-concn. in, review, 4J121
computer programs for use in multi-element, 3A29
computer simulation of γ -spectra in 14-MeV, 4J126
detmn. of photopeak energy in instrumental, 6J121
multi-element analysis by, and solution of problems of classification in, with use of apparatus based on multiple measurement statistics, 6B7
use of (n,n') reactions in epithermal, 4J120
—, **by photons**, optimisation of irradiation conditions in bremsstrahlung, 1J180
tables of nuclear constants for, 6A24
—, **by protons**, facility for simul. studies using PIXE and, 1J181
- Radiochemical analysis**, anti-Cerenkov photomultiplier tube for, 1J184
applications of tracer methods in metal science, review, 2B2
emanation methods, 4J144B
of environmental materials, 5H104B
system for sepn. of rare-earth fission products, 1J183
theory of method in, based on sub-stoichiometric masking and auxiliary extractants, 6B9
- Radio-immunoassay**, components and optimisation of, 3D14
computer programs for use in, 4D5
effects of hyperlipidaemia in, 2D295
inter-relations of mathematical approaches to, 2D12
review, 1D11
use of logit - log. data reduction in, 2D13
use of microencapsulated antibody in detmn. of free hormones by, 6A4C
use of reference plasma samples for estimating variability of measurements in, 2D11
with direct reading of γ -labels without further sepn. or washing, 1D12
- Radionuclides**, detection in environmental materials, review of laboratory-instrumental methods for, 4H2
detmn., *in situ* methods for, review, 5J144
report of symposium on synthesis and applications of compounds labeled by, 6A2
sepn. and detmn. in environmental materials or fertilisers, review, 3G17
- Radium**, detmn. of ^{224}Ra in water, by collection on impregnated acrylic fibres - γ -spectrom., 1H59
of ^{226}Ra and ^{228}Ra in water, sepn. scheme for, 3H48
of Ra-to-U ratio in uranium ores, using 'hyperpure' germanium detector, 1B96
identn. and detmn. of ^{226}Ra , with Modulo-2 filter, 2B39
- Radon**, desorption of, from activated carbon into liquid scintillator, 1B28
detmn. in air, using nuclear-track detector, 3J130
with its daughter isotopes, calibration chamber for, 5J10
in soil air, using opened counting phial and liquid scintillation counter, 3G10
of ^{222}Rn - ^{222}Rn decay products in air, by α -counting of particles sorbed on filter-paper, 6H9
of ^{222}Rn and ^{222}Rn daughters in air, optimised scheme for, 1H12
of ^{222}Rn daughter nuclides in soil air, with automatic collection - counting apparatus, 1G11
- Raffinose**, detmn. in molasses, enzymic - spectroph., 3F13
- Rain**, see under *Water*, *natural*
- Rapeseed**, detmn. of carbofuran and its metabolites in plants of, by g.c., 1G39
- Rapeseed meal**, detmn. of residual hexane in, by head-space g.l.c., 2G6
- Rapeseed oil**, detection in olive oil, by t.l.c. (or t.l.c. - g.l.c.) analysis of sterols, 4F74
of aniline and anilides in denatured, by t.l.c., 4F69
detmn. of erucic acid in, by g.l.c., 6F71
- Rare-earth metals**, detmn., by a.a.s., 4B71
by XRF, 1B77
spectrogr., 5B76
spectroph., 3B65, 4B76
application of regression analysis in, 3B63

Rare-earth metals, determination—continued

- in alloys, forced-flow liquid chrom. - spectroph., 4B177
in aluminium, emission spectrom., 6B60
in bauxite, by n.a.a., 6B63
in copper, flame photom. or spectroph., with sepn. by amalgam electrolysis, 6B36
in iron or steel, spectroph., 2B147
in lanthanum oxide, emission spectrom., 1B85
in minerals, ores or rocks, by n.a.a., 4B78
emission spectrom., 4B73
spectroph., 4B75
in silicates, by n.a.a., interference from U in, 6B95
of heavy, single-sweep deriv. polarogr., 6B67
in yttrium oxide, extraction chrom. - spectroph., 4B77
of isotope ratios of, by resonance-ionisation m.s., 3B68
of light and heavy, in mixtures, spectroph. - titrim., 4B80
of SO_4^{2-} in soln. of, titrim., 4B79
sepn. from Al, Ca and V from each other, paper chrom., 1B82
from other fission products, by solvent extraction, 5B89
of extracts of diantipyrylmethane-1⁻ complexes of, into immiscible org. phases, 2B64
of fission products, system for, 1J183
solvent extraction of, with bidentate heterocyclic amine ligands, 1B76
—, cerium-group, detmn., spectroph., 6B70
- Rare-earth metals, reagents for**, arsenazo III, 2B147, 4B177, 6B36
2,2'-bipyridyl - Chrome Azurol S - dodecylpyridinium chloride, 3B65
chlorophosphonazo III, 3B63
chlorophosphonazo-mA, 4B75
m-formylchlorophosphonazo, 4B76
nitrophosphonazo-mA, 6B70

Rare-earth-metal complexes, for use as shift reagents in n.m.r., 2A13
with Eriochrome cyanine R, i.r. spectra of, 1B83
with hexadecylpyridinium chloride and xylenol orange, 4B70

Rare-earth-metal oxides, detmn. of Ce in, stripping voltamm., 1B86
of Cu in, spectroph., 1B34
of Eu in mixtures of, automated spectroph., 3B69
by a.a.s., 4B84

Rare-earth-metal pyrosilicates, as standards for electron micro-probe analysis, 1A1C

Raspberry ketone, see *Butan-2-one*, 4-(4-hydroxyphenyl)-

Rayon, see *Viscose rayon*

Razoxane, detmn. in blood plasma, blood serum or cerebrospinal fluid, by h.p.l.c., 6D123

Reagents, BSI preparation and methods of test for, 5A15
design of glass apparatus for use in manufacture of, 6J2
diffuse-reflectance-spectrom. study of silica gel-immobilised, 6A22
use of resins for sepn. and purification of, reviews, 3A7, 4A6

—, organic, reviews, 1A12, 5A6

(Less common reagents are indexed below; detailed studies of specific reagents are additionally indexed under the reagent name. See also *Dyes*; *Indicators*)

- 3-(3-acetylphenylazo)-6-(4-chloro-2-phosphonophenylazo)chromotropic acid, 4B75, 5G12
6-(3-acetylphenylazo)-3-(4-nitro-2-phosphonophenylazo)chromotropic acid, 6B70
acridine-9-carboxaldehyde, 5H4
4-[3-allyl(thioureido)]benzenesulphonic acid, 3A13
2-(4-aminodiphenyl)-1H-indole-6-carboxamide, 3D272
5-amino-3-[(3-chloro-2-hydroxy-5-nitrophenyl)azo]-4-hydroxynaphthalene-2,7-disulphonic acid, 1B78
4-amino-6-hydroxy-2-mercapto-5-nitrosopyrimidine, 3B132
7-amino-4-hydroxynaphthalene-2-sulphonic acid, 6F21
5-amino-1,3,4-thiadiazole-2-thiol, 4B199
anthrapurpurin complexan [N-(9,10-dihydro-3,4,6-trihydroxy-9,10-dioxo-2-anthracenyl)iminodiacetic acid], 5B52
anthrylglyoxal 4-diethylaminoanil, 1B20
7-(4-antipyrinylazo)quinolin-8-ol, 3B33
 α -antipyrinyl- α -(4-benzylmethylamino)phenyl]-4-dimethylamino-benzyl alcohol, 1B45, 3B121
antipyrinylbis-(4-benzylmethylaminophenyl)methanol, 1B59
 α -antipyrinylbis-(4,4'-dimethylamino)benzhydrol, 3B121
arsenazo M [3-(2-arsonophenylazo)-6-(3-sulphophenylazo)chromotropic acid], 6B72
(2-arsonophenylazo)-3-(4-bromophenylazo)chromotropic acid, 3A10
3-(2-arsonophenylazo)-6-(phenylazo)chromotropic acid, 6B129
3-(2-arsonophenylazo)-6-(3-sulphophenylazo)chromotropic acid, 6B72
BAHP [1-phenylbutane-1,3-dione 3-(4-benzyl-6-phenylpyridazin-3-yl)hydrazon], 4B39
BAL (2,3-dimercaptopropanol), 1H66
BrPADAP [(5-bromo-2-pyridylazo)-5-diethylaminophenol], 1B58, 4B94, 6B104
benzenethiol, 6B168
N-(2-benzimidazolylimino)benzamidoxime, 4B19
benzofuroin oxime, 5B85
benzoylacetone monohydrazon 3-hydrazino-4-benzyl-6-phenylpyridazine [1-phenylbutane-1,3-dione 3-(4-benzyl-6-phenylpyridazin-3-yl)hydrazon], 4B39
4-benzoyl-3-methyl-1-phenylpyrazoline-5-thione, 1A9
benzyl 2-pyridyl ketone 2-pyridylhydrazon, 4B18
benzyl 2-pyridyl ketone 2-quinolylhydrazon, 6H40

Reagents, organic—continued

- beryllon II [4,5-dihydroxy-3-(8-hydroxy-3,6-disulpho-1-naphthylazo)-naphthalene-2,7-disulphonic acid], 5H58
biacetyl bis-(4-phenyl-3-thiosemicarbazone), 6B165
biacetyl monoxime 2-pyridylhydrazon, 6B174
3,3'-(4,4'-biphenylene)bis-(2,5-diphenyl)-2H-tetrazolium chloride, 3B133
2,2'-bipyridyl 2-furanocarbothiohydrazon, 3H70
1,5-bis-(5-chloro-2-hydroxyphenyl)-3-cyanoformazan, 4B126, 6A20
3,5-bis-(5-chloro-2-hydroxy-3-sulphophenylazo)chromotropic acid, 1B181, 4B183
3,6-bis-(4-chloro-2-phosphonophenylazo)chromotropic acid, 3B63, 6B68
4,4'-bis(diethylamino)thiobenzophenone, 4B47
4,4'-bis-(3,4-dihydroxyphenylazo)stilbene-2,2'-disulphonic acid, 5B98, 6B120
1,1-bis-(4-dimethylaminophenyl)-3-phenylprop-2-ynilium chloride, 4B150
4,4'-bis(dimethylamino)thiobenzophenone, 2H95, 5B45
2,4-bis-(5,6-diphenyl-1,2,4-triazin-3-yl)pyridinetetrakisulphonic acid, 6D44
2,2'-bis(di-2-pyridylmethylene)thiocarbohydrazon [1,5-bis(di-2-pyridylmethylene)thiocarbohydrazide], 4A10
1,2-bis(octanesulphamoyl)benzene, 5B11
1,8-bis(octanesulphamoyl)naphthalene, 5B11
1-(bromoacetyl)pyrene, 3D190
p-bromoarsenazo [2-arsonophenylazo]-3-(4-bromophenylazo)chromotropic acid, 3A10
2-(6-bromobenzothiazolyl-2-ylazo)-5-diethylaminophenol, 4A9, 4B194
2-(6-bromobenzothiazolyl-2-ylazo)-5-dimethylaminophenol, 4A9
1-(6-bromobenzothiazolyl-2-ylazo)-2-naphthol, 1H60
2'-bromo-4',5'-dihydroxyazobenzene-4-sulphonic acid Na salt, 6B130
3-(5-bromo-2-pyridylazo)chromotropic acid, 3A9
2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 1B58, 4B94, 6B104
3-(butylamino)isobutyronitrile, 6B121
4-t-butyl-2-mercaptophenol, 1B44
CIPADAP [2-(5-chloro-2-pyridylazo)-5-diethylaminophenol, 1B58
3-(3-carboxy-2-hydroxy-5-sulphophenylazo)chromotropic acid, 1B68
3-(2-carboxyphenylazo)-6-(m-tolylazo)chromotropic acid, 6B128
catechol-3,5-disulphonic acid (4,5-dihydroxybenzene-1,3-disulphonic acid), 1B42
chinoxin (clioquinol; 5-chloro-7-iodoquinolin-8-ol), 1B171
9-chloroacridine, 4E3
 β -(3-chloroanilino)cinnamic acid 3-chloroanilide, 1B62
5'-chloro-2',4'-dihydroxypropiophenone, 1B154
5'-chloro-2',4'-dihydroxypropiophenone oxime, 4B192
5-chloro-3-(2,4-dithioxo-1,3-thiazin-5-ylazo)-2-hydroxybenzenesulphonic acid, 4B203
4-(5-chloro-2-hydroxy-3-sulphophenylazo)-3-hydroxynaphthalene-2,7-disulphonic acid, 5B49
5-chloroindole-2-carboxylic acid, 2B140
5-chloro-7-iodoquinolin-8-ol, 1B171
N¹-(4-chlorophenyl)-N²-(4-chloro-o-tolyl)-N¹-hydroxybenzamidene hydrochloride, 3B32
N-(4-chlorophenyl)-N-hydroxy-N'-o-tolyl-p-toluamidine hydrochloride, 5B121
3-(4-chloro-2-phosphonophenylazo)chromotropic acid, 4B61, 6B104
6-(4-chloro-2-phosphonophenylazo)-3-(3-formylphenylazo)chromotropic acid, 4B76
2-(5-chloro-2-pyridylazo)-5-diethylaminophenol, 1B58
4-(5-chloro-2-pyridylazo)-m-phenylenediamine, 6B159
chlorophosphonazo I [3-(4-chloro-2-phosphonophenylazo)chromotropic acid], 4B61, 6B104
chlorophosphonazo III [3,6-bis-(4-chloro-2-phosphonophenylazo)chromotropic acid], 3B63, 6B68
chlorophosphonazo-mA [3-(3-acetylphenylazo)-6-(4-chloro-2-phosphonophenylazo)chromotropic acid], 4B75, 5G12
chlorpromazine, 4B158, 5B123
chlorsulphophenol S [3,6-bis-(5-chloro-2-hydroxy-3-sulphophenylazo)-chromotropic acid], 1B181, 4B183
chromazol KS [3-(3-carboxy-2-hydroxy-5-sulphophenylazo)chromotropic acid], 1B68
chromethylpyrazol [α -antipyrinylbis-(4,4'-dimethylamino)benzhydrol], 3B121
chrompyrazol I [α -antipyrinyl- α -(4-benzylmethylamino)phenyl]-4-dimethylaminobenzyl alcohol], 1B45, 3B121
chrompyrazol II [antipyrinylbis-(4-benzylmethylaminophenyl)-methanol], 1B59
clioquinol (5-chloro-7-iodoquinolin-8-ol), 1B171
4-cyano-5-dihydroxyphenylazo-3-methylthiophene-2-carboxylic acid ethyl ester, 5B183
4-cyclohexyl-6-(2-pyridylazo)resorcinol, 5B110
dalzin (1,6-diallyl-2,5-dithiobiurea), 4J129
7-(dec-1-enyl)quinolin-8-ol, 3B149
1,6-diallyl-2,5-dithiobiurea, 4J129
diaminomaleimide dioxime, 2A11
diantipyrinylthiourea, 5B58
4-diazomethyl-7-methoxycoumarin, 2C8
2-(3,5-dibromopyridylazo)-5-diethylaminophenol, 2H64
2-(3,5-dibromopyridylazo)-5-dimethylaminophenol, 6B116

Reagents, organic—continued

- 2-(3,5-dibromo-2-pyridylazo)-5-[N-ethyl-(3-sulphopropyl)amino]phenol, 5B84
 3',5'-dichloro-2'-hydroxyacetophenone oxime, 2B163
 5,7-dichloroquinolin-8-ol, 5B100
 dicyclohexylcarbodi-imide, 2C32
 4-(4-diethylaminophenylazo)-1-(4-nitrobenzyl)pyridinium bromide, 2H86
 5-diethylamino-2-(8-quinolylazo)phenol, 1B125
 5-diethylamino-2-(2-thiazolylazo)phenol, 1B184
 (dihydro-3,4,5,8-tetrahydroxy-9,10-dioxo-2-anthrylmethyl)iminodiacetic acid, 5B63
 N-(9,10-dihydro-3,4,6-trihydroxy-9,10-dioxo-2-anthracenyl)imino-diacetic acid, 5B52
 1,5-dihydroxyanthraquinone, 1B50
 4,5-dihydroxybenzene-1,3-disulphonic acid, 1B42
 2,6-dihydroxybenzoic acid, 4H50
 2,2'-dihydroxybenzophenone thiosemicarbazone, 1B26
 4,4'-dihydroxybenzophenone thiosemicarbazone, 1B26
 4,5-dihydroxy-3,6-bis-(4-nitro-2-sulphophenylazo)naphthalene-2,7-disulphonic acid Ca salt, 1B133
 4,5-dihydroxy-3-(8-hydroxy-3,6-disulpho-1-naphthylazo)naphthalene-2,7-disulphonic acid, 5H58
 4-(2,4-dihydroxyphenylazo)-5-hydroxynaphthalene-2,7-disulphonic acid, 2B48
 1,4-dihydroxyphthalimide dithiosemicarbazone, 3H68
 2,3-dimercaptopropanol, 1H66
 5-(p-dimethylaminobenzylidene)-2-thiohydantoin, 2B19
 5-dimethylamino-2-nitrosophenol, 4B164
 N,N-(dimethylazobenzene-4,4'-diamine, 3C24
 3-(4,5-dimethyl-2-thiazolyl)-2,5-diphenyl-2H-tetrazolium bromide, 3B133
 (2,4-dinitrophenylazo)catechol, 5B139
 1,6-diphenylhexa-1,3,5-triene, 2D160, 2D161
 2,3-diphenylquinolinizinium bromide, 1A13
 di-2-pyridyl ketone 2-pyrimidinylhydrazone, 1B180
 8,8'-diquinolyl disulphide, 2B137
 7-dodecyl-8-quinolinol [7-(3,3,6-trimethyl-1-vinylheptyl)quinolin-8-ol], 2B73
 ethyl methyl ketone oxime, 3B39
 2-ethylamino-5-(2-pyridylazo)-p-cresol, 2B57
 ferene S [5,5'-[3-(2-pyridyl)-1,2,4-triazine-5,6-diyl]bis(furan-2-sulphonic acid) di-Na salt], 6D44
 ferrozine [4,4'-[3-(2-pyridyl)-1,2,4-triazine-5,6-diyl]bis(benzenesulphonic acid) di-Na salt], 6D44
 7-fluorobenzofuran-4-sulphonic acid NH₄⁺ salt, 2C10
 4-fluoro-7-nitrobenzofuran, 1D174, 5D117
 m-formylchlorophosphonazo [6-(4-chloro-2-phosphonophenylazo)-3-(3-formylphenylazo)chromotropic acid], 4B76
 furan-2-thiocarbonylhydrazide, 3B164
 3-(2-furyl)-2-mercapto-3-methylpropenoic acid, 5B25
 2-(2-furylmethylene)hydrazinecarbothioamide, 5B155
 gallion [5-amino-3-(3-chloro-2-hydroxy-5-nitrophenylazo)-4-hydroxy-naphthalene-2,7-disulphonic acid], 1B78
 HIPT (2-hydroxy-3-isopropylcyclohepta-2,4,6-trien-1-one), 5B86
 heptan-4-one oxime, 3B56
 4,4'-heptylidenebis-(3-methyl-1-phenylpyrazolin-5-one), 3B34, 3B36
 4,4'-heptylidenebis(pyrazolin-5-one), 4B55
 5,7,7,12,14,14-hexamethyl-1,4,8,11-tetra-azacyclotetradecane, 5B147
 H-resorcinol [4-(2,4-dihydroxyphenylazo)-5-hydroxynaphthalene-2,7-disulphonic acid], 2B48
 hydrazine carbothioamide-2-(2-furanyl-methylene) [2-(2-furylmethylene)hydrazinecarbothioamide], 5B155
 2-hydroxybenzophenone thiosemicarbazone, 1B26
 2-hydroxycyclohexanone thiosemicarbazone, 2B27
 α-hydroxyimino-α-(1-methylbenzimidazol-2-yl)acetone, 2B104
 2-hydroxy-3-isopropylcyclohepta-2,4,6-trien-1-one, 5B86
 N-hydroxymandelamide, 6B31
 2-hydroxy-4-methoxy-5-sulphobenzophenone thiosemicarbazone, 1B26
 4-hydroxy-N-methylbenzamide, 1B118
 3-hydroxy-2-methyl-1,4-naphthoquinone monoxime, 6B170
 N-hydroxymethylthiourea, 5B168
 4-hydroxy-3-(2-pyridylazo)naphthalene-1-sulphonic acid, 3B146
 8-hydroxyquinoline-5-sulphonic acid, 2B65
 o-hydroxyquinoliphtalein (2',3',6',7'-tetrahydroxy-2,3,6,7-tetrabenzofuran-1(3H),9'-[9H]-xanthen-3-one), 1B113, 2E46
 8-hydroxy-7-[(4-sulpho-1-naphthyl)azo]quinoline-5-sulphonic acid, 6B122
 8-hydroxy-7-(2-thiazolylazo)quinoline-5-sulphonic acid, 2B38, 2B141, 3B131
 N-hydroxy-N-m-tolyl-N'-phenylbenzamidine, 1B126
 N¹-hydroxy-N¹-m-tolyl-N²-(2,6-xylyl)benzamidine hydrochloride, 5B34
 1-acid (7-amino-4-hydroxynaphthalene-2-sulphonic acid), 6F21
 imidoilphenylhydrazine {1-[4-methyl-α-(2,5-xylylimino)benzyl]-2-phenylhydrazine}, 2131
 4-(4-iodophenylazo)pyrogallol, 3B123
 2-(4-iodophenyl)-3-(4-nitrophenyl)-5-phenyl-2H-tetrazolium chloride, 3B133
 isonicotinaldehyde, 5H4

Reagents, organic—continued

- β-isopropyltropolone (2-hydroxy-3-isopropylcyclohepta-2,4,6-trien-1-one), 5B86
 Kclex 100 [7-(3,3,6-trimethyl-1-vinylheptyl)quinolin-8-ol], 2B73
 MBTH (3-methylbenzothiazolin-2-one hydrazone), 3B120, 4D142, 6C34, 6E8
 2-(2-mercaptoacetamido)benzenesulphonate, 2B153
 2'-mercaptoacetanilide, 5B128
 2-mercapto-3-methyl-3-phenylpropenoic acid, 5B25
 2-mercapto-3-methyl-3-(2-thienyl)propenoic acid, 5B25
 2-mercapto-N-2-naphthylacetamide, 5B162, 5B163, 6B175
 2-methoxy-2,4-diphenylfuran-3(2H)-one, 2C39
 2-(4-methoxyphenyl)-5,7-diphenyl-4H-1,3,4-thiadiazolo[3,2-a]pyridinium chloride, 3B41
 4-methoxy-2-(4-thiazolylazo)phenol, 3B146
 4-methoxy-N-m-tolylbenzohydroxamic acid, 2B119
 N-methylanabasine-α'-azo-p-cresol (2-[5-(1-methyl-2-piperidyl)-2-pyridylazo]-p-cresol), 4B59, 4B131
 N-4-methylbenzenesoxamic (N-p-toloxamic) acid, 4B81
 3-methylbenzothiazolin-2-one hydrazone, 3B120, 4D142, 6C34, 6E8
 5,5'-methylenebisresorcinic acid, 3A11
 N-methylfurohydroxamic acid, 2B16
 2,2'-methyliminobis(quinolin-8-ol), 1B79
 2-(5-methylisoxazol-3-ylazo)-p-cresol, 2B155
 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one, 1H45
 4-[6-[6-(4-methylpiperazin-1-yl)benzimidazol-2-yl]benzimidazol-2-yl]phenol trihydrochloride pentahydrate, 1H85
 2-[5-(1-methyl-2-piperidyl)-2-pyridylazo]-p-cresol, 4B59, 4B131
 1-(3-methyl-1H-pyrazol-5-ylazo)-2-naphthol, 3B108
 4-methyltetrahydrobenzofuranol[6,7-b]coumarin (7-methyltetrahydrofuro[2',3':5,6]naphtho[3,2-b]pyran-9-one), 5B36
 1-(5-methyl-1,3,4-thiadiazol-2-ylazo)-2-naphthol, 3B51
 6-(5-methyl-1,3,4-thiadiazol-2-ylazo)-3,4-xylenol, 2A17
 1-[4-methyl-α-(2,5-xylylimino)benzyl]-2-phenylhydrazine, 2B131
 monomethyl-p-amidophenol (4-hydroxy-N-methylbenzamide), 1B118
 naphthalene-2,3-diamine, 2H67, 4F31, 4H62, 5B130
 1,2-naphthoquinone thiosemicarbazone, 3B52
 1,2-naphthoquinone-4-sulphonic acid, 6C23
 N-1-naphthylethylenediamine, 2H87
 nitchromazo [4,5-dihydroxy-3,6-bis-(4-nitro-2-sulphophenylazo)naphthalene-2,7-disulphonic acid Ca salt], 1B133
 nitritoltris(methylenephosphonic acid), 5B35
 2-(4-nitrobenzoyl)acetanilide, 5B151
 (2-nitrophenylazo)catechol, 5B139
 (4-nitrophenylazo)catechol, 5B139
 2-nitrophenylhydrazine, 1C29
 4-[3-(4-nitrophenyl)-2-triazeno]azobenzene, 3C58
 nitrophenosphonazo-mA [6-(3-acetylphenylazo)-3-(4-nitro-2-phosphonophenylazo)chromotropic acid], 6B70
 3-nitrosochromotropic acid, 6B164
 5-nitro-2-[3-(4-p-sulphophenylazophenyl)-1-triazeno]benzenesulphonic acid, 3B148, 5F4
 2-(octanesulphamoyl)phenol, 5B11
 8-(octanesulphamoyl)quinoline, 5B11
 oxalic acid bis-(2,4-dinitrophenyl) ester, 6D209
 oxalic acid bis-(2,4,6-trichlorophenyl) ester, 6D209
 7-oxobenzimidazo[2,1-a]benz[de]isoquinoline-10-sulphonyl chloride, 1C31
 PHBT (pyruvaldehyde 2-benzothiazolylhydrazine), 2B42
 PQSC (phenanthrenequinone monosemicarbazone), 6B32
 papaverine, 5H100
 pentane-2,4-bis-(o-mercaptophenyl)anil [N,N'-pentane-2,4-diylidenebis-(2-aminobenzenethiol)], 3B158
 phenanthrene monothiosemicarbazone, 3B152
 phenanthrenequinone monosemicarbazone, 6B32
 N-phenylanthranilic acid, 4B180
 phenylarsenazo [3-(2-arsonophenylazo)-6-(phenylazo)chromotropic acid], 6B129
 phenylbenzimidazolylazo-ketoxime [N-(2-benzimidazolylimino)benzamidoxime], 4B19
 2-phenylbenzo[8,9]quinolinizino[4,5,6,7-fed]phenanthridinium perchlorate, 5B43
 1-phenylbutane-1,3-dione 3-(4-benzyl-6-phenylpyridazin-3-yl)hydrazine, 4B39
 N-phenylcinnamohydroxamic acid, 3B109
 2-(phenyliminomethyl)pyridine, 4B107
 N-phenyl-m-nitrocinnamohydroxamic acid, 4B74
 phthalomonohydroxamic acid K salt, 2B26, 2B115, 5B141
 picolinaldehyde amidinohydrazone, 5B164
 picolinaldehyde guanilylhydrazine, 4B36
 N-(4-picolylamino)salicylphosphonic acid, 4B159
 N-(4-picolylamino)salicylphosphonic acid, 4B159
 promethazine hydrochloride, 6B136
 propane-1,2-diaminetetra-acetic acid, 1B52, 1B124
 4,4'-(propane-1,2-diylidamino)bis-(1,1,1-trifluoropent-3-en-2-one), 1B12
 pseudopurpurine (1,3,4-trihydroxyanthraquinone-2-carboxylic acid), 2B28, 5A16
 pyridoxal 2-pyridylhydrazine, 2B116
 pyridoxal salicyloylhydrazine, 3B97

Reagents, organic—continued

- pyridoxal thiosemicarbazone, 4B163
 2-pyridyl 2-thienyl (Z)-ketoxime, 3B159, 3B163
 2-pyridylacetaldehyde salicyloylhydrazone, 2B142
 2-(2-pyridylmethyleneamino)ethylamine Zn complex, 2H72
 N-2-pyridyl-2-sulphobenzamide Na salt, 6B145
 4,4'-[3-(2-pyridyl)-1,2,4-triazine-5,6-diyl]bis(benzenesulphonic acid) Na salt, 6D44
 5,5'-[3-(2-pyridyl)-1,2,4-triazine-5,6-diyl]bis(furan-2-sulphonic acid) di-Na salt, 6D44
 pyrrolidine-1-carbodithioic acid, 5B143
 pyruvaldehyde 2-benzothiazoylhydrazone, 2B42
 quercetin, 5H79
 quinalizarin complexan [(dihydro-3,4,5,8-tetrahydroxy-9,10-dioxo-2-anthrylmethyl)iminodiacetic acid], 5B63
 quinoline-8-carbodithioic acid, 3A14
 4-(2-quinolylazo)phenol, 5F44
 2-(2-quinolyl)benzo[f]quinoline, 1B35
 resacetophenone oxime, 5B152
 β-resorcyaldehyde, 4B5
 rutin, 6B138
 SNAZOX [8-hydroxy-7-[(4-sulpho-1-naphthyl)azo]quinoline-5-sulphonic acid], 6B122
 SNAZOXs [7-(4-sulpho-1-naphthylazo)quinolin-8-ol], 3B151
 salicylaldehyde thiosemicarbazone, 4B127
 salicylfluorone [2,6,7-trihydroxy-9-(2-hydroxyphenyl)xanthen-3-one], 3B126, 4B144, 5B133
 2-(salicylideneamino)benzoic acid, 1B47
 salicylhydroxamic acid, 1B167
 stilbazo [4,4'-bis-(3,4-dihydroxyphenylazo)stilbene-2,2'-disulphonic acid], 5B98, 6B120
 sulpharsazen [5-nitro-2-[3-(4-p-sulphophenylazophenyl)-1-triazeno]-benzenearsonic acid], 3B148, 5F4
 N-(o-sulphobenzyl)-N-pyridine (N-2-pyridyl-2-sulphobenzamide) Na salt, 6B145
 sulphochlorophenol S [chlorosulphophenol S; 3,5-bis-(5-chloro-2-hydroxy-3-sulphophenylazo)chromotropic acid], 4B183
 7-(4-sulpho-1-naphthylazo)quinolin-8-ol, 3B151
 TPP (1,3,5-triphenyl-2-pyrazoline), 4B129
 tetrachlorodithionates, 1B17
 tetraethylthiuram disulphide, 1H58
 2',3',6',7'-tetrahydroxyspiro(isobenzofuran-1(3H),9'-[9H]-xanthen)-3-one, 1B113, 2E46
 5,10,15,20-tetrakis-(1-methylpyridinium-4-yl)porphine, 2B8
 5,10,15,20-tetrakis-(4-sulphophenyl)porphine Cd complex, 3B147
 5,10,15,20-tetrakis-(5-sulphothiophenyl)porphine, 2B40
 5,10,15,20-tetrakis-(4-trimethylammoniophenyl)porphine, 1B34, 1B81
 4-(2-thiazolylazo)catechol, 1B74
 2-thiobarbituric acid, 3B156
 N-thiobenzoylphosphoramidodithioic acid *OO*-di-isopropyl ester, 1B36
 thiocarbonylhydrazide, 1B65
 thionalide (2-mercapto-N-2-naphthylacetamide), 5B162, 5B163, 6B175
 thiophene-2-carboxaldehyde 2-quinolylhydrazone, 2B12, 4H9
 thirhodine [5-chloro-3-(2,4-dithioxo-1,3-thi-zin-5-ylazo)-2-hydroxybenzenesulphonic acid], 4B203
 toluene-4-thiol, 6B168
 N-p-tolylloxamic acid, 4B81
 4,5,6-triaminopyrimidine, 6B37
 1-(1,2,4-triazol-3-ylazo)-2-naphthol, 2B101
 4-(1,2,4-triazol-3-ylazo)thymol, 3A12
 3-(1,2,4-triazol-3-ylazo)toluene-2,6-diamine, 5B149
 1,3,4-trihydroxyanthraquinone-2-carboxylic acid, 2B28, 5A16
 trihydroxyazobenzene, 4B63
 2,6,7-trihydroxy-9-(2-hydroxyphenyl)xanthen-3-one, 3B126, 4B144, 5B133
 4-(2,3,4-trihydroxyphenylazo)benzenesulphonic acid, 3B123
 4,4,6-trimethyl-1-(2-nitro-p-tolyl)pyrimidine-2-thiol, 5B160
 4,4,6-trimethyl-1-phenyl-(1H,4H)-pyrimidine-2-thiol, 4B37
 7-(3,3,6-trimethyl-1-vinylheptyl)quinolin-8-ol, 2B73
 1,3,5-triphenyl-2-pyrazoline, 4B129
 2,3,5-triphenyl-2H-tetrazolium chloride, 3B133
Reagar, detmn. of elements in, by PIXE, 2B3
Reductones, detmn. in products of Maillard reaction, by g.l.c., as hydroxy-pyrazoles, 5F8
Refractory materials, detmn. of B in. spectroph., 3B145
 of elements in, by XRF, review, 4B172
 of gaseous impurities in, by spark-source m.s., 2B176
 of W in alloys, by isotope dilution - m.s., 6B155
 trace analysis of metals, review, 6B1
Reinecke salt, detmn., potentiom., with hydantoin deriv. in non-aq. media, 1A16
Renal stones, see *Urinary calculi*
Renin, see under *Enzymes, specific*
Reproterol, detmn. in blood plasma, by h.p.l.c., 6D103
Reserpine, detmn. in blood plasma, by h.p.l.c., 6D58
 identn. and detmn. in pharmaceutical preparations, by t.l.c. - densitom., 1E30
Resinography, standards for, 1A33B

- Resins**, analysis of phenols in, by g.l.c. and h.p.l.c., review, 6C33
 detmn. of HCN in products of pyrolysis and combustion of filtration, photom., 6C85
 of H₂O₂ in, by chemiluminescence method, 2C111
 of Th and U in, by secondary-ion m.s., 1B204
 identn. of acrylates and methacrylates in dental, by g.c. - m.s., 6C83
 isolation from petroleum, gel chrom., 1C72
 sepn. of anions in paint, by h.p.l.c., 6J24
 thermal analysis of thermosetting, review, 1C121
 — **epoxy-**, analysis, by ¹³C n.m.r., 6C84
 of composite materials containing, 2C123
 detmn. of aniline and cresols in hardeners for, by g.l.c., 4C83
 of epoxide equiv. and C and OH contents of, review, 1C119
 identn. of org. compounds leached from water-main linings of, in water, by g.c. - m.s. and field-desorption m.s., 5H87
 identn. and detmn. of phthalates in, by t.l.c. - i.r. spectrom. - h.p.l.c., 2C122
 sepn. of oligomers in, high-performance gel chrom., 3C115
 — **phenol - formaldehyde**, sepn., gel chrom., 1C120
 of oligomers in, high-performance gel chrom., 3C115
 — **phenolic**, analysis, by ¹³C n.m.r., 6C84
 — **urea - formaldehyde**, analysis, by n.m.r., review, 6C82
 h.p.l.c. monitoring of course of reaction in formation of, 2C121
Resorcinol, detmn., potentiom., use of sulphur nitride electrode for, 2J166
 in hair lotions or shampoo, 2C92
 in oxidative hair dyes, by t.l.c. - densitom., 2C96
Retinal, detmn. of isomers of, in retina, by h.p.l.c., 3D281
 sepn. and identn. of stereoisomers of 5,8-furanoidal, by h.p.l.c. - n.m.r., 2D274
 — **3-dehydro-**, detmn. of isomers of, in retina, by h.p.l.c., 3D281
Retinoic acid, detmn. of all-*trans*-, in blood serum, by h.p.l.c., 2D273
Retinol, detmn. in blood plasma or blood serum, by h.p.l.c., 4D293
 in blood serum, effects of sample-collection time and of sample treatment in, 6D266
 in liquid foods, fluorim., 3F10
 sepn. of isomers of, by h.p.l.c., 4D294
Retinyl acetate, detmn., differential pulse voltamm., 2D24
Retinyl esters, detmn. in blood serum, by h.p.l.c., 5D173
 sepn. and detmn. in biol. tissues, by h.p.l.c., 3D280
Retinyl palmitate, detmn. in peanut oil, i.r. spectroph., 1E43
 of all-*trans*-, in foods, isomerisation during extraction for, 6F8
Rhamnitol, detmn. in soln. from xylitol production, by g.l.c. of acetate, 5C14
Rhamnose, detmn., by g.c., 3D146
 in hydrolysates of neutral detergent fibre, by h.p.l.c., 6F4
 in plant-cell walls and mucilages, by h.p.l.c., 3D145
 in soln. from xylitol production, by g.l.c. of corresponding aldono-nitrile acetate, 5C14
 identn. in olives, paper chrom., 4F52
 sepn. from other aldoses, by h.p.l.c. of N-(p-methoxyphenyl)glycosylamines, 2C24
Rhein, sepn. from rhubarb anthraquinones, by h.p.l.c., 4E20
Rhenium, detmn., photom., comparison of reagents for, 3B129
 spectroph., 2B138, 4B158
Rhenium, reagents for, basic dyes, 3B129
 chlorpromazine - SCN⁻, 4B158
 Na₂MoO₄, 2B138
Rhenium complexes, sepn. of mixed bromochloro-, by h.p.l.c., 5B170
Rhodium, concn., on Polyorgs V, 1B27
 detection, colour reactions for, 1B26
 detmn., by a.a.s., 1B188, 5B158
 by charged-particle activation, 3B12
 emission spectrom., extraction method for, 6B24
 spectroph., 1B180
 in Cu - Ni concentrates, stripping voltamm., 3B157
 in minerals, ores or rocks, by cumulative n.a.a., 3B167
 spectrogr., 6B144
 in presence of Au, Ir, Pd and Pt, spectroph., 2B20
 of other precious metals, by a.a.s., 4B22
 of Pt, polarogr., 5B171
 in solvent metal or wastes, by a.e.s. or a.e.s. - XRF, 6B78
 in sweeps, 1B15
 sepn. from other elements, ion-exchange chrom., 5B16
Rhodium, reagents for, di-2-pyridyl ketone 2-pyrimidinylhydrazone, 1B180
 HCl - SnCl₂, 2B20
 thiosemicarbazones of hydroxybenzophenones, 1B26
Rhodium complexes, with benzoylacetone or trifluoroacetylacetone, detmn. in presence of related compounds, by t.l.c. - densitom., 5B17
Rhodopsin, detmn., by r.i.a., 5D175
 h.p.l.c. study of, 5D156
Rhubarb, sepn. and identn. of constituents of extracts of, by h.p.l.c., 3E20
Ribitol, detmn., by g.l.c. of trifluoroacetylated O-(–)-menthylloxime deriv. - m.s., 5D90
Riboflavin, detmn. in dairy products or eggs, by h.p.l.c., 4F42
 in foods, by modified AOAC fluorim. method, 6F10
 in pharmaceutical preparations, by h.p.l.c. with automatic continuous-flow sample preparations, 4E29

- Riboflavin**, determination in pharmaceutical preparations—*continued*
by t.l.c. - densitom., 3E28, 3E29
u.v. spectroph., 3E27
- **5'-phosphate**, h.p.l.c. study of purity of preparations of, 5D194
- Ribonuclease**, see under *Enzymes, specific*
- Ribose**, detmn. in presence of fructose and xylose, by paired-ion h.p.l.c., 1D114
sepn. from other aldoses, by h.p.l.c. of *N*-(*p*-methoxyphenyl)glycosylamines, 2C24
- **1-phosphate**, detmn., enzymic - radiom., 1D115
- Rice**, analysis of pesticides in, by g.l.c., isolation and clean-up methods for, 6G36
detection of aflatoxins in, mini-column method for, 6F27
detmn. of aflatoxin B₁ in, by t.l.c. - densitom., 6F11
of carbamate pesticides in, by g.l.c., 6G37
of citrinin in, by h.p.l.c., 4G5
of dichlorvos, methomyl and trichlorphon in, by g.c., 6G34
of phytic acid in bran of, by h.p.l.c., 1F16
of Se in, fluorim., 4F31
of trichothecenes in, by h.p.l.c., 3G6
sepn. and detmn. of mycotoxins in mouldy, by t.l.c., 2F18
- Rice-bran oil**, fractionation of neutral lipids of, centrifugal liquid chrom., 4F72
- Rice-milk**, detmn. of tartrazine in, by h.p.l.c., 5F30
- Ricinoleic acid**, detmn. of free, in castor oil, i.r. spectroph., 6C87
- Ro 03-8799**, see *Propan-2-ol*, 3-(2-nitroimidazol-1-yl)-1-piperidino-
- Rockogenin**, detmn. in presence of hecogenin, chrom. - reflectance spectrom., 6A5C
- Rocks**, see under *Minerals, ores and rocks*
- Rosmarinic acid**, detmn. in leafy spices, liquid chrom. - g.c. of TMS deriv., 1F34
- Rotenoids**, sepn. and detmn., liquid chrom. - m.s., 1J51
- Rotenone**, detmn. in formulations, by h.p.l.c., 5G39
collaborative study of h.p.l.c. method for, 5G40
- Roussin red ethyl ester**, see *Iron, bis-μ-(methylthio)tetranitrosodi-*
- Rubber**, analysis, review, 4A2
detmn. in guayule, by n.m.r., 3G3
i.r. spectroph., 1C123
of 2,4-di-isocyanatotoluene in fumes evolved in curing of, by h.p.l.c. of ethylurethan deriv., 3H39
of 2-mercaptobenzothiazole in teats for babies' bottles, by h.p.l.c., 2C125
- Rubidium**, detection, by synchrotron-radiation XRF, 2J87
detmn., by n.a.a., 1B9
in biol. materials, by XRF, 1F4
in cereals or flour, by XRF, 6F25
in hair, by photon activation, 1D19
in milk powder, by PIXE, 6F34
in silicates, by XRF, 4B110
in water, by PIXE, 1H46
sepn. from other alkali metals, by h.p.l.c., 4B29
from other elements, ion-exchange chrom., 6B30
solvent extraction of, as picrate, with crown ethers having co-ordinating side-chains, 4A7
with asymmetrical crown ethers, 3A15
with dibenzo-18-crown-6 and sulphonphthalein dyes, 3B25
with poly- and bis-(benzo-12-crown-4)s, 1B31
- Rumen fluid**, detmn. of polyoxyethylene glycol in filtrate of, turbidim., 3D134
- Ruthenium**, concn., on Polyorgs V, 1B27
detection, colour reactions for, 1B26
detmn., by a.a.s., 1B188
by catalytic - spectroph. method, 5B24
by charged-particle activation, 3B12
by spectroph. titration, 5B161
emission spectrom., extraction method for, 6B24
spectroph., 2B161, 3B156, 6B170
in alumina or silica - alumina-based catalysts, by a.a.s., 2B162
in presence of other platinum-group metals and Au, photom., 5B160
in solvent metal or wastes, by a.e.s. or a.e.s. - XRF, 6B78
in sweeps, 1B15
sepn. of Ru^{II} and Ru^{III}, magneto-paper electroph., 3B15
solvent extraction of, with γ-irradiated sulphoxides or tributyl phosphate, 1B18
sorption of, by polymeric thioether, 5B159
- Ruthenium, reagents for**, furil α-dioxime, 2B161
3-hydroxy-2-methyl-1,4-naphthoquinone monoxime, 6B170
2-thiobarbituric acid, 3B156
thiosemicarbazones of hydroxybenzophenones, 1B26
4,4,6-trimethyl-1-(2-nitro-*p*-tolyl)pyrimidine-2-thiol, 5B160
- Rutile**, detmn. of impurities in concentrates of, spectrogr., 2B105
- Rutin**, detmn., spectroph., 4E4
identn. and detmn. in preparations of medicinal plants, comparison of methods for, 3E19
- Rutosides**, *O*-(2-hydroxyethyl)-, detmn. in blood serum, by h.p.l.c., 3D63
- Rye**, analysis of pentosans of, gel chrom., 1F15
sepn. of mycotoxins in *Alternaria*-contaminated, by t.l.c., 2F19
- SK&F 82526**, see *3-Benzazepine-7,8-diol*, 6-chloro-2,3,4,5-tetrahydro-1-(4-hydroxyphenyl)-1H-
- STS 557**, see *Oestra-4,9-dien-3-one*, 17α-cyanomethyl-17β-hydroxy-
- Saccharin**, detmn. in foods, by h.p.l.c., 1F10
by isotachopheresis, 3F9
in nickel-plating soln., titrim., 2B160
of impurities in, by h.p.l.c., 6F19
- **sodium**, detmn. of impurities in, by h.p.l.c., 6F19
- Saccharin, N-methyl-**, identn. in presence of 2,4,5-T methyl ester, by g.l.c., 1D107
- Safrole**, detmn. in beverages or perfume products, by h.p.l.c., 1C94
- Saké**, detmn. of peptides in, colorim., 4F62
sepn. and detmn. of org. acids in, ion chrom., 4E37
- Salbutamol**, detmn. in blood plasma, by automated g.c. - m.s., 1D86
- Salicylaldehyde**, identn. in plants, by 'enfleurage' h.p.l.c., 4J17
t.l.c. study of, in presence of other aromatic aldehydes, 3C47
- Salicylamide**, detmn. in pharmaceutical preparations, by automated g.c. - m.s., 2G12
identn. in analgesic preparations, by t.l.c., 3E42
- Salicylate**, detection in urine, by t.l.c., 5D49
detmn. in blood, use of heparinised samples for, 2D81
in blood serum, spectroph., 3D85
with Multistat III micro-centrifugal analyser, 6D80
- , **5-amino-**, detmn. in blood plasma, with its metabolite, by h.p.l.c., 6D116
- Salicylic acid**, chrom. methods for analysis of creams containing, 1E2
detmn., phosphorim., 2E44
titrim., 3E44
use of cholinesterase inhibitor in sample tubes for, 3D298
in aspirin powder, second-deriv. u.v. spectroph., 3E45
in biol. tissues, blood plasma or urine, by h.p.l.c., 3D84
in blood plasma, by t.l.c. - fluorim., 4D89
with its metabolites, by h.p.l.c., 5D50
in blood serum, by h.p.l.c., 6D79
in creams, by h.p.l.c., 2E1
identn., i.r. spectrosc., 2E4
sepn. from heparin, by t.l.c., 2E32
- **esters**, **ethyl**, identn. in plants, by 'enfleurage' h.p.l.c., 4J17
- , **methyl**, identn. in plants, by 'enfleurage' h.p.l.c., 4J17
- , **phenyl**, detmn., phosphorim., 2E44
- Salicylic acid, 4-amino-**, detmn., colorim., 4E3
in pharmaceutical preparations, spectroph., 4E72
in presence of ascorbic acid and isoniazid, iodim., 2E59
identn., i.r. spectrosc., 2E4
- , —, **sodium salt**, detmn. in pharmaceutical preparations, by h.p.l.c., 3E66
- Salicylic acid derivatives**, identn. in pharmaceutical preparations, by t.l.c., 3E5
- , **alkyl, calcium salts**, detmn. in lubricating-oil additive, liquid chrom., 2C77
- Salicyluric acid**, see *Hippuric acid, o-hydroxy-*
- Saliva**, detmn. of acidic proline-rich proteins of, and of their N- and C-terminal fragments, immuno-radiom., 6D231
of amiodarone in, by h.p.l.c., 6D109
of amitriptyline and nortriptyline in free and bound forms in, by dialysis - g.c. - m.s., 2D84
of caffeine and its metabolites in, by h.p.l.c., 5D29
of Ca in different chemical forms in, gel chrom., 3D30
of ceftriazone in, by h.p.l.c., 5D37
of diazepam and its metabolites in, by g.l.c., 4D97
of drugs in, by g.l.c., 3D56
of drugs and their metabolites in, by automated h.p.l.c., 4D48
of ethimazole and its metabolites in, by h.p.l.c., 4D108
of flumecinol in, by g.l.c., 4D125
of gentamicin and tobramycin in, by fluoro-immunoassay, and their non-appearance after administration, 6D63
of NO₂⁻ and NO₂⁻ in, enzymic - colorim., 5D21
of phenazone in, by h.p.l.c., 6D84
of progesterone in, enzyme immunoassay unsuitable for, 3D188
of sulfapyridine in, by h.p.l.c. with post-column derivatisation with fluorescamine, 5D71
of Δ⁹-tetrahydrocannabinol and its 9-substituted metabolites in, by r.i.a., 4D75
of theophylline in, by h.p.l.c. or enzyme immunoassay, 4D56
identn., evaluation of Phadebas isoamylase test kits for use in, 5D220
identn. and detmn. of testosterone in, by g.c. of TMS ether of pentafluorobenzoyloxime - chemical-ionisation m.s., 2D172
- Salmon**, detmn. of ethanol in canned, by head-space g.c., 4F41
- Salsoline**, detmn., by h.p.l.c., 2E16
- Samarium**, detmn., amperom., 2B68
fluorim., quenching effects in, 1B90
spectroph., 4B82
in copper, flame photom., with sepn. by amalgam electrolysis, 6B36
in misch metal, by a.a.s., 1B80
in presence of Ce, La, Nd and Pr, by h.p.l.c. - spectroph., 2B63
of Er or Tb, spectroph. - titrim., 4B80
of other rare-earth metals, by t.l.c. - spectroph., 6B68
in silicates, by n.a.a., interference from U in, 6B95

Samarium, determination—*continued*

in yttrium oxide, emission spectrum., 2B62
of isotope ratios of, in presence of Nd, by resonance-ionisation m.s., 3B68

sepn. from La or Lu, magneto-paper electroph., 3B15

Samarium, reagents for, chlorophosphonazo III, 6B68

tetraethylenepentaminehepta-acetic acid, 4B82

2-thenoyltrifluoroacetone - trioctylphosphine oxide, 1B90

Samarium complexes, with diethylenetriaminepenta-acetic acid or EDTA, detmn. in water, by n.a.a., 3H74

Samidine, dihydro-, detmn. in *Phloedicarpus sibiricus* roots, by g.l.c., 6D157

Sampling, for trace analysis, review, 5J1

review, 3J1

theory of, for uniform non-homogeneous materials, 2A6

from segregated materials, 4A3

Sand, assay of urease in marine, as indicator of sewage contamination of beaches, 2H105

detmn. of elements in, by n.a.a., 5B194

Santoquin, detmn. in apple peel, by g.l.c., 1G31

Saponins, sepn., 5J20

Saralasin, detection and detmn., by isotachophoresis, 6E35

Sarcosine, detmn., fluorim., 2C39, 4C20
in brain tissue, by g.l.c. of pentafluoropropionyl deriv. of hexafluoropropyl ester - m.s., 1D175

Sauerkraut, detmn. of acids in brine of, by isotachophoresis, 2F36

Sausages, see under *Meat products*

Scandium, detmn., photom., 1B78

potentiom., with Alizarin red S-selective electrode, 4J136

spectroph., 4B72

in copper, flame photom., with sepn. by amalgam electrolysis, 6B36

in minerals, ores or rocks, emission spectrum., 4B73

in presence of Th, amperom., 5B74

in silicates, spectrogr., 1B107

sepn. from other elements, extraction chrom., 5B75

solvent extraction of, with 4-acyl-3-methyl-1-phenylpyrazolin-5-ones in presence of triethylphosphine oxide, 5B79

Scandium, reagents for, catechol violet, 1B78

Chrome Azurol S - dodecyltrimethylammonium acetate, 4B72

Chromotrope 2R, 1B78

Eriochrome black T, 1B78

Eriochrome blue SE, 1B78

gallion, 1B78

Scandium complexes, with catechol violet and hexadecyltrimethylammonium ions, 1B70

with Eriochrome cyanine R, 1B69

Sch 29482, see *Penem-3-carboxylic acid*, 5R, 6S, 8R-2-ethylthio-6-(1-hydroxyethyl)-

Scheelite, detmn. of P in concentrates of, spectroph., 5B134

Scintillation counting, dual-parameter discriminator for use with gas proportional counters, 2J159

of β - γ coincidence events with phoswich detector, 3J132

—, liquid, vol.-corrected results in, 6A2C

H₂O-miscible non-hazardous cocktails for, 6A2C

Scintillators, encapsulated, for ³H monitoring, 3D24

Scirpenol, diacetox-, detection in cereals or feeding-stuffs, by g.l.c. of TMS deriv., 5G10

Scopolamine, see *Hyoscyne*

Scutellarein, tetra-O-methoxy-, sepn. from other citrus flavones, by h.p.l.c., 5F12

Seaweed, detmn. of As in different chemical forms in, by g.c., as 2,3-dimercaptopropanol complexes, 1H66

Sebacic acid, detmn. in water or waste water, 4H73

— **esters**, sepn. from alditol acetates, by g.c., 6D152

Secobarbital, see *Quinalbarbitone*

Secoiridoid glucosides, sepn., identn. and detmn. in *Swertia* spp., by h.p.l.c. - field-desorption m.s., 4E19

Secondary-ion microscopy, applications in metal science of, review, 2B2

Secoverine, detmn. in blood plasma or blood serum, by automated fluorim. or spectroph. method after enzymic hydrolysis, 1D50

Sediments, analysis of recent lacustrine, by instrumental methods, 2H41

of sterols and wax esters in, by g.c., 1H76

detmn. of Am in, by co-pptn. with oxalate - ion-exchange chrom. - α -spectrum., 1H61

of As in different chemical forms in, ion-exchange chrom. - a.a.s., 3H62

of benzophenone in, by g.c., 1H79

of ⁹Be-to-¹⁰Be ratio in, with tandem accelerator, 2H51

of Cd, Cr, Cu, Pb and Ni in, by a.a.s., interferences in, 3H44

of cellulose and non-cellulose carbohydrates in, by g.c., 5H86

of chlorinated hydrocarbons in, by g.l.c., 1H75

of diaryl phosphates in, by g.l.c., 6D142

of element speciation in, selective extraction procedure for, 6H33

of elements in, by a.a.s., automated system for, 2H55

by lithium borate fusion - a.a.s., 4B10

by lithium borate fusion - XRF, 4H40

by n.a.a., 3H45

emission spectrum., 2A2C, 2H1

evaluation of acid-extraction - a.a.s. methods for, 4H41

using three-electrode plasmatron, 6H1

Sediments, determination—*continued*

of elements in leachate from, 1H49

of elements in marine, by PIXE, 2B3

review, 4H39

of F in, by combustion - potentiom., with ion-selective electrode, 3H6

of Fe, Pb, Mn and Zn in, by a.a.s., 1H52

of 4,4'-isopropylidenedi-(2,6-dibromophenol) in, by g.c. - m.s., 6H59

of Pb in, by isotope dilution - m.s., 5B104

of ²¹⁰Pb in, correction for self-absorption in, 3H56

of PCB in, 2A2C

by g.c., clean-up method for, 3H75

by g.c. - chemical-ionisation m.s., 2H89

by g.c. - m.s. - m.s., 2H3

of priority org. compounds in, liquid chrm. - g.c. - m.s., 6A23

of pyrite in, by a.a.s., 1B196

of S²⁻ in, iodim. or potentiom., 5H99

of 2,3,7,8-tetrachlorodibenzo-p-dioxin in, by g.l.c. or h.p.l.c., 1H84

of U isotopes in, radiochem., 3H54

extraction and characterisation of metals in, comparison of methods for, 6H32

identn. of PAH in, Shpol'skii-effect fluorim., 6H55

of source of aromatic hydrocarbons and their alkyl homologues in, by g.l.c. - m.s., 5H85

study of Cu binding by humic acids in, 3H47

Selenate, detmn. in presence of other anions, by g.l.c. of t-butyltrimethylsilyl deriv. - m.s., 2B15

Selenide, detmn., automated stripping potentiom., review, 4J141

Selenides, alkyl, identn. and detmn. in air, by cryogenic trapping - g.c. - a.a.s., 1H34

Selenite, detmn. in presence of other anions, by g.l.c. of t-butyltrimethylsilyl deriv. - m.s., 2B15

Selenium, detection in foods, by t.l.c., 4F31

detmn., by a.a.s., automated system for, 2H55

comparison of methods for, 3B11

elimination of NO₂⁻ interference in, 5B129

masking agents for noble metals in, 3B107

sample-introduction system for, 5J109

by h.p.l.c. - emission spectrum., 2J35

by n.a.a., 1B9

cathodic-stripping catalytic polarogr., 3B116

development of methods for, review, 6A10

emission spectrum., reduction of interferences in, 3J84

gravim., 1B137

potentiom., 5B131

spectroph., 4B137, 5B128

in air, by chromato - a.a.s., 2J74

in air-borne dust or particulates in water, by XRF, 1H34

in antimony and phosphorus trichlorides, 6B118

in biol. materials, by XRF, 4D36

differential pulse cathodic-stripping voltamm., 4D23

emission spectrum., 2D33

in biol. tissues or blood, by XRF, with pre-concn. by co-pptn. on tellurium, 5H53

in copper, spectroph., 6B37

in fats or fatty oils, by n.a.a., 4F68

in fatty acid still-bottom residues, by a.e.s., 2C34

in fish tissues, differential pulse polarogr., 4D38

in foods, by t.l.c., 4F31

in garlic, leeks or onions, comparison of methods for, 5F49

in heat-resisting alloys, by co-pptn. with As - a.a.s., 1B179

in lead, emission spectrum., 2B100

in liver tissue, 3D18

in liver tissue or milk, by a.a.s., 6D41

in minerals, ores or rocks, fluorim., 5B130

in nickel alloys, by a.a.s., 5B157

in plants, by a.a.s., 4D37

in presence of Yb, by n.a.a., 3B117

in pyrite or ash, u.v. spectroph., 1B138

in sulphur, by XRF, 6B127

in sulphuric acid, by a.a.s., hydride-generation method unsuitable for use with technical-grade samples, 1B136

in urine, emission spectrum., 2D37

in water, by a.a.s., using stabilised-temp. platform furnace, 1H47

emission spectrum., 6H45

fluorim., 2H67

in water or waste water, by XRF, 5H75

of different chemical forms of, in water, by a.a.s., with sepn. and concn. on 'thiol-cotton' fibre, 4H61

of Se¹³⁴ and total, in water, fluorim., 4H62

of Te in, by a.a.s., 2B123

spectroph., 4B137

sepn. from other elements, by t.l.c., 1B23

of ⁷⁷Br from proton-bombarded, 3B118

solvent extraction of, with aq. systems from organometallic - halide extracts, 1B14

with quinoline-8-carbodithioic acid, 3A14

Selenium, reagents for, 2'-mercaptoacetacetanilide, 5B128

naphthalene-2,3-diamine, 2H67, 4F31, 4H62, 5B130

oxalyldihydrazide, 1B137

4,5,6-triaminopyrimidine, 6B37

- Selenium compounds**, detmn. of alkyl. in air, by chromato - a.a.s., 2J74
- Semicarbazide**, detmn., potentiom., with hydantoin deriv. in non-aq. media, 1A16
- , **4-phenylthio-**, derivatives, identn., by t.l.c., 1C52
- Semicarbazones, seleno-**, analytical applications of, review, 1A10
- , **thio-**, analytical applications of, review, 1A10
- detmn., non-aq. titrim., 4C15
- sepn. from 1-methyl-2-(4-thiazolyl)benzimidazolylhydrazones and from each other, by t.l.c., 2C58
- Semiconducting materials**, analysis, by secondary-neutral m.s., 3J93
- comparison of sensitivity limitations in methods for, 3B176
- with helium micro-probe, 5A4C
- of gases in packages of, by m.s., 2J138
- analytical assistance in technology of, 3B175
- applications of surface-characterisation methods in studies of, review, 4B2
- detmn. of dopant and impurity distributions in, review, 2B178
- of elements in III - V compounds, by standardless electron micro-probe method, 1B206
- of Pb in, spectrogr., 3B180
- of Pb in films of, spectrogr., 5B103
- of Th and U in LSI constituents, by secondary-ion m.s., 1B204
- of ultra-trace elements in, by a.a.s., 5B157
- i.r.-spectrom. methods in problems of processing of, 1A1C
- Seminal fluid**, detmn. of proteins in plasma of, immunonephelom., 4D241
- of Zn in plasma of, spectrogr., 1D31
- sepn. and detmn. of saturated and unsaturated phospholipids in, by t.l.c. - densitom., 2D156
- Separation processes**, semi-permeable membranes for concn. of high-mol.-wt. solutes, 4J19
- use of resilient polyurethan foams as sorbents, review, 5J11
- Seplapterin**, cyclic-voltamm. study of, 6D265
- detmn. in presence of related compounds, liquid chrom. - fluorim., 1D243
- Serine**, detmn. in blood plasma, effect of sampling site in, 3D209
- in presence of glycine and (hydroxymethyl)serine, by h.p.l.c. of N-trinitrophenyl deriv., 4D208
- , **(hydroxymethyl)-**, detmn. in presence of glycine and serine, by h.p.l.c. of N-trinitrophenyl deriv., 4D208
- , **phospho-**, detmn. in proteins, with automatic amino-acid analyser, 3D214
- Serotonin**, see *Tryptamine, 5-hydroxy-*
- Serpentine**, detmn. of elements in, with electron micro-probe, 5B176
- Shale**, analysis, by thermal methods, 2A4C
- of gas in oil, Raman and FT i.r. spectrom., 6C59
- detmn. of elements in oil, by O-bomb combustion - ion chrom., 2B167
- comparison of methods for, 1B191
- of Ti in clay, spectrogr., 3B97
- electron-microsc. - u.v.-fluorim. study of Chattanooga, 1A1C
- laser micro-probe mass analysis studies of, 4B209
- Shampoo**, detmn. of quinine in, by h.p.l.c., 2E9
- of resorcinol in, 2C92
- Shellfish**, see also *Mussels; Oysters*
- detection of tetrodotoxin and other poisons in, by h.p.l.c., 3F28
- detection and detmn. of metallothioneins in, polarogr., with use of PAR-303 electrode, 1D195
- detmn. of elements in extracts of, emission spectrom., 2H1
- Sialic acids**, see *Neuraminic acids, N-acetyl-*
- Sialidase**, see *Enzymes, specific, neuraminidase*
- Siderophilin**, detmn., laser nephelom., 4D240
- Silage**, detmn. of alcohols and carboxylic acids in juices from, by g.l.c., 2D132
- of carotene in, colorim., 6G17
- of org. acids in, by h.p.l.c., 3G23
- of H₂O in, by g.c., 6G15
- Silica**, see also *Quartz*
- analysis of semiconductor-grade, spectrosc., with use of polar cathode discharge, 3B90
- characterisation of optical fibre blanks of, by γ -irradiation - spectrom., 5B187
- detmn. in raw materials and products of the silicate and metallurgical industry, 3B88
- in water, by flow-injection - spectrogr. methods, 1H62
- of B in doped films of, by secondary-ion m.s., 3B179
- of coloured metallic impurities in, by oxidising reaction of *o*-amino-phenol with H₂O₂, 3B91
- of cryst., evaluation of methods for, 1B104
- of dopant and impurity distributions in, 2B178
- of free, in air-borne dust, by a.a.s., 5H14
- of Th and U in, by secondary-ion m.s., 1B204
- evaluation and detmn. of surface groups on modified, near-i.r. spectrogr., 4B109
- laser m.s. study of, 1A1C
- synthesis and analysis of cryst., 1B105
- Silicate**, detmn., spectrogr., 3B104
- in blood serum, by t.l.c. of molybdate complex - u.v. spectrogr., 2D55
- in presence of phosphate, by kinetic - spectrogr. method, 2B113
- Silicates**, see also *Minerals, ores and rocks, silicate*
- analysis, statistical characteristics of distribution curves of basic components in, 3B92
- detmn. of elements in, by lithium borate fusion - a.a.s., 4B10
- by XRF, 2B92, 4B110
- of Mn in, by a.a.s. or a.e.s., 2B173
- of Zr in, spectrogr., with sample decomposition with molten NaOH, 5B97
- Silicic acid**, detmn., 6B87
- of low-mol.-wt., in aq. soln., by g.c., trimethylsilylation for, 4B108
- Silicon**, analysis of detector-grade semiconductor, review, 4B217
- of films containing stainless steel and, with electron micro-probe, 5B188
- of single crystals of As⁺-implanted, by Rutherford back-scattering spectrometry, 1J176
- detmn., by XRF, gelatin-film calibration standard for, 1J98
- differential pulse voltamm., 1B103
- spectroph., BSI method for, 1B102
- titrim., 3B87
- in aluminium, spectrogr., 2B53
- in aluminium or aluminium alloys, emission spectrom., 5B66
- in aluminium alloys, by a.a.s., 3B60
- in aluminium fluoride, by XRF, 6B62
- in ash, spectrosc., 3B16
- in biol. fluids, by a.a.s., 6D34
- in biol. materials, emission spectrom., 2D33
- in brine, by a.e.s., 4B152
- in coke, by XRF, sample preparation for, 6B189
- in ferriobium, titrim., 1B169
- in graphite, emission spectrom., with pre-concn. on chelating resin, 2B87
- in iron, spectrogr., 4B179
- in iron alloys, by XRF, 4B187
- in lime, by XRF, sample preparation for, 6B189
- in manganese silicates, by a.a.s., 6B96
- in minerals, ores or rocks, by XRF, 5B172
- comparison of methods for, 1B191
- in nickel alloys, emission spectrom., 2B157
- in periclase, spectrogr., 2B166
- in plants, by XRF, 1G19
- in presence of Re, spectrogr., 2B138
- in rutile concentrates, spectrogr., 2B105
- in serpentine, with electron micro-probe, 5B176
- in silicates, by XRF, 2B91
- in steel, by indirect a.a.s., 1B166
- giant-pulse laser spectrochem., 1B160
- proton-induced prompt-photon spectrom., 5A4C
- spectrogr., in flowing gas atmosphere, 3B137, 3B138, 3B139
- spectroph., 4B179
- of Al, B and C in polycrystalline, by charged-particle activation, 5A4C
- of Sb in, anodic-stripping voltamm., 2B91
- of B in, by m.s., 3J104
- of B depth distribution in, neutron-induced autoradiogr., 6B89
- of dopant and impurity distributions in, 2B178
- of impurities in, by photoluminescence method, 2B88
- of impurities in hydrogenated amorphous, by secondary-ion m.s., 2B89
- of In in, by n.a.a., 2B106
- of N and O on, by deuteron activation, 3B89
- of O in, by He fusion - g.c., 2B90
- by n.a.a., 6B139
- calibration of optical method for, 6B90
- of P in semiconductors, by n.a.a. - autoradiogr., 6B91
- of Th and U in, by secondary-ion m.s., 1B204
- of Ti in solar-grade, differential pulse polarogr., 5B95
- Silicon nitride**, detmn. of impurities in, emission spectrom., 2B134
- Silicones**, detmn. in photocopy paper, emission spectrom., 3J82
- of gases dissolved in, by g.s.c., 2C126
- Silver**, complexing agent for, 3A13
- concn., on carbonaceous materials, 6B43
- on chelating fibrous sorbent, 5B39
- on polyether-based polyurethan foam, 2B11
- detection, by pptn. in viscous media, 3B18
- colour reactions for, 2B12, 3A13
- reaction for, 5B21
- detection and detmn., colour reaction for, 3A13
- detmn., by a.a.s., 5J111
- comparison of methods for, 3B11
- with atomisation under pressure, 3B35
- by catalytic - fluorim. (or spectrogr.) method, 5B41
- by catalytic - titrim. method, 1B43
- by flow-injection - amperom. method, 6J171
- by kinetic - spectrogr. method, 3B33
- by n.a.a., with pre-concn. by co-pptn., 1B10
- by XRF, 6B18
- emission spectrom., extraction method for, 6B24
- fluorim., 1B112
- gravim., 3B37
- photom., 2B19

Silver, determination—*continued*

- potentiom., 3B36, 6B11
 with Cu²⁺-selective electrode, 3B10
 with Ag(CN)₂⁻-selective electrode, 6J138
 with Hg-selective electrode, 1B176
 radiom., 6B42
 spectrogr., 3B36
 with pre-concn. by ion exchange, 5B37
 spectrogr., 6B41
 titrim., with thionalide in acetic acid, 6B40
 in biol. materials, spectrogr., 5D12
 in copper, by a.a.s., 1B41
 spectrogr., 3B34
 in galena, sepn. method for use in, 3B168
 in Au - Ag alloys, Auger-electron spectrogr., 4B46
 in lead, emission spectrogr., 2B100
 in lithium aluminosilicate glass, spectrogr., 2B172
 in liver tissue, by a.a.s., 3D18
 in magnesium, spectrogr., 3B44
 in minerals, ores or rocks, by a.a.s., after lead collection and HClO₄, parting, 4B45
 by cumulative n.a.a., 3B167
 by XRF, 3J62
 spectrogr., 2B33
 in nickel alloys, by a.a.s., 5B157
 in photographic materials, coulom. or voltamm., 6C88
 in presence of other elements, by n.a.a., 5B8
 gravim., 6B16
 in silicates, spectrogr., 1B107
 in silver-plating electrolytes, potentiom., with ion-selective electrode, 3B38
 in sweeps, 1B15
 in tin, by a.a.s., 4B112
 in uranium, emission spectrogr., 1B95
 in waste water, comparison of methods for, 2H95
 in water or waste water, by a.a.s., 5H97
 in ZnS - Ag phosphors, by a.a.s., 4B214
 of elements in electrolytes from refining of, by a.a.s., 2B35
 ion-exchange study of, 6B30
 sepn. from Cd and Cu, by t.l.c., 6B3
 from Cu, Pb and Ni, with cyclic amplification by successive pptn. - filtration, 6B12
 from Au, by co-pptn. with Fe(OH)₃, 5B46
 from other elements, by solvent extraction, 3B34
 by t.l.c., 1B23
 solvent extraction of, continuous flow-through, with ethyl methyl ketone oxime, 3B39
 with aq. systems from organometallic - halide extracts, 1B14
 solvent extraction of ¹¹⁰Ag, with sulphoxides from HCl medium, 2B34
Silver reagents for, 4-[3-allyl(thioureido)]benzenesulphonic acid, 3A13
 4,4'-bis(dimethylamino)thiobenzophenone, 2H95
 Br⁻ - phenosafranine, 1B112
 bromopyrogallol red - 1,10-phenanthroline, 2B33
 CrO₄²⁻, 3B18
 5-(*p*-dimethylaminobenzylidene)-2-thiohydantoin, 2B19
 eosin - 1,10-phenanthroline - Triton X-305, 6B41
 ferrocene, 3B37
 KI, 5B21
 K₂HgI₄, 6B11
 K₂CS₃, 6B16
 thiophene-2-carboxaldehyde 2-quinolylhydrazone, 2B12
Silver alloys, Ag - Au, analysis of surfaces of, Auger-electron spectrogr., 4B46
 detmn. of elements in, with electron micro-probe, correction methods for, 2B9
 —, Ag - Pd, detmn. of Pd and Ag in, gravim., 3B37
Silver complex, with methionine, detmn., titrim., 6D215
Silver halides, particle size analysis, i.r. thin-cell turbidim., 5A5C
Silver sulphide, comparison of Auger-electron and X-ray photoelectron spectrogr. studies of, 4B13
 detmn. in slag, 3B40
Silvex, see *Fenoprop*
Silybum marianum, detmn. of inulin in roots of, paper chrom. - spectrogr., 1E47
Silymarins, isomeric and diastereoisomeric products in, 6A5C
Simazine, detmn. in water, by g.l.c. or h.p.l.c., 1H83
Sincoumar, identn., by n.m.r., 5E45
Sinenetin, sepn. from other citrus flavones, by h.p.l.c., 5F12
Sinomenine A, detmn. in presence of other isoquinoline alkaloids, by t.l.c. - densitom., 2E15
Sissomycin, detmn. in presence of other aminoglycosides, by h.p.l.c., 4D64
Sisymbrium irio, analysis of fixed oil of, by t.l.c. - g.l.c., 6E33
 β -**Sitosterol**, detmn. in faeces, with its metabolites, by g.l.c., 1D134
 in unsaponifiable matter of ghee, by g.l.c., as indication of degree of adulteration, 1F31
Skin, assay of porphobilinogen synthase in fibroblasts from, fluorim., 5D231
 of proline dipeptidase in fibroblasts from, colorim., 1D274
 fluorim., 4D329

Skin—*continued*

- detection of nitroglycerine on hands, by t.l.c. - g.c., 3C119
 detmn. of arachidonic acid in exudate from, by g.c. of *t*-butyldimethylsilyl ester - m.s., 2D150
 of bilirubin in, spectrogr., 1D222
 of cresols and phenol in washes from, chrom. - colorim., 1D104
 of 2,4-D in pads or rinses from, by g.l.c., 6G24
 of hexachlorobenzene in washings from, by g.c., 5H33
 of trioxsalen in, by h.p.l.c., 4D124
Slaframine, detection of acetylated, in feeding-stuffs, by t.l.c., 1G22
Slag, detmn. of B in, spectrogr., 3B145
 of Ca in metallic form in CaF₂-containing, by reaction with H₂O - g.c., 3B144
 of Cl in, by XRF or spectrogr., 1B168
 of elements in, by XRF, review, 4B172
 comparison of methods for, 1B191
 of Fe and V in, amperom. or potentiom., 4B130
 of Pd in precious-metal-refining, spectrogr., 2B164
 of Ag₂S in, 3B40
 of useful elements in, scheme for, 1B2
Smoke, see also *Tobacco smoke*
 m.s. study of phenols in curing, 2F5
Snake venom, assay of phosphodiesterases of, fluorim., 1D269
 of phospholipase A₂ in, radiom., 4D324
Soaps, detmn. in fats or fat products, titrim., 6F70
 of Ti in, by a.a.s., 4C65
Sodium, detection, reaction for, 5B21
 detmn., by automated controlled-dispersion method, using ion-selective electrode, 2J11
 ISFET sensor for, 1J189
 laser-enhanced-ionisation spectrogr., 3J86
 micro ISFETs for, 3D25
 potentiom., active material for ion-selective electrode for, 4J130
 with ion-selective electrode, 6J130
 in air-borne dust, with laser micro-probe mass analyser, 3H12
 in biol. materials, by n.a.a. *in vivo*, interferences in, 5D13
 emission spectrogr., standards for use in, 2D34
 with Beckman Astra-8 instrument, drift in, 2D42
 in blood or blood serum, potentiom., effect of erythrocytes in, 4D26
 in blood plasma or blood serum, evaluation of ion-selective electrolyte slides for, 2D38
 in blood serum, effect of lipaemia in SMAC method for, 2D19
 potentiom., with ion-selective electrode, 6D24
 stripping potentiom., 3B6
 in carnallite or products of its desiccation, potentiom., with ion-selective electrode, 4B35
 in erythrocytes, flame photom., effect of sample storage at low temp. in, 5D16
 in fertilisers, emission spectrogr., 2G5
 in fly ash reference material, 5A18
 in foods, potentiom., with ion-selective electrode, 5F31
 in minerals, ores or rocks, by XRF, 5B172
 comparison of methods for, 1B191
 in petroleum or petroleum products, by BSI a.a.s. method, 4C55
 in plants, by XRF, 1G19
 in sea-water, stripping potentiom., 3B6
 in sediments, by n.a.a., 3H45
 in serpentine, with electron micro-probe, 5B176
 in silicates, by XRF, 2B91
 in triuranium octaoxide, emission spectrogr., 5B87
 in urine, potentiom., with ion-selective electrode, 6D24
 in wine, flame spectrogr., 4F59
 in ZnS - Ag phosphors, by a.a.s., 4B214
 of exchangeable, in sewage sludge, soil or related materials, flame photom., 4G7
 of impurities in, emission spectrogr., 1B33
 of ⁹⁰Sr in coolant, β -spectrom., 5B33
 monitoring of impurities in liquid, review of electrochem. techniques for, 3B23
 sepn. from other alkali and alkaline-earth metals, by h.p.l.c., 4B29
 from K, by charge-mosaic dialysis, 1B32
 solvent extraction of, as picrate, with crown ethers having co-ordinating side-chains, 4A7
 with asymmetrical crown ethers, 3A15
 with dibenzo-18-crown-6 and sulphonphthalein dyes, 3B7, 3B25
 with dibromodibenzo-18-crown-6 and dye anions, 3B8
 with poly- and bis-(benzo-12-crown-4)s, 1B31
Sodium, reagent for, zinc uranyl acetate, 5B21
Sodium carbonate, detmn. in suppositories, by thermal methods, 1E7
Sodium chloride, see also *Brine*
 analysis, instrumentation for, 4F1
 detmn. of B in, spectrogr., 2B48
 of Cd, Cu and Pb in, anodic-stripping voltamm., 4H45
 of Cd, Cu, Pb and Mn in, by a.a.s., 5B20
 of I⁻ in, by flow-injection - amperom. method, 5J13
 by h.p.l.c., 6F50
 by kinetic - u.v.-spectroph. method, 4B32
Sodium fluoride, detmn. of AlF₃ - NaF ratio in aluminium electrolyte, titrim., 5B70
Sodium halides, detmn., potentiom., 6E7

- Sodium hydroxide**, shelf life of soln. of, 2F59
- Sodium iodide**, detmn. of H_2O in crystals of, 6B29
- Sodium metabisulphite**, detmn., by h.p.l.c., 4E2
- Sodium metaphosphate**, detmn. of H_2O in glass prepared from, by aluminium-reduction method, 2B171
- Sodium metasilicate**, detmn. of Si in, titrim., 3B87
- Sodium nitrate**, detmn. of Cl^- in, by isotope dilution - m.s., 3B24
- of Cu and Pb in, anodic-stripping voltamm., 5B10
- Sodium nitrite**, detmn. of Cu and Pb in, anodic-stripping voltamm., 5B10
- Sodium nitroprusside**, detmn., spectroph., 2B144
- Sodium pertechnetate**, t.l.c. study of radioactive, 1E76
- Sodium phosphate**, detmn. of hydrolysis quotient of tribasic, Raman spectrom., 4B122
- Sodium phosphates**, sepn. and detmn., BSI ion-exchange chrom. - spectroph. method for, 2B114
- Sodium tetraborate**, detmn. in ethanediol, potentiom., 2C21
- in presence of HBO_3 , iodim., 5B64
- Sodium thiocyanate**, impurities in soln. of, and their influence on light absorption, 1B101
- Sodium thiosulphate**, shelf life of alkaline soln. of, 2F59
- Sodium triphosphate**, detmn. of anhydrous and hydrated, X-ray diffractom., 4B123
- Soil**, analysis, by chromat. - a.a.s., 2J74
- of herbicides in, 2A2C
- assay of α -D-trehalase in, 1G17
- detmn. of ^{241}Am and Pu in, by ion exchange - electro-deposition - α -spectrom., 3G12
- of ammonium-N in Kjeldahl digests of, automated colorim., 3G13
- of anilides in peaty, by g.l.c. of iodo-deriv., extraction method for, 2G10
- of Sb in, by a.a.s., 4C45
- of As in, review, 1G15
- of benzo[a]pyrene in, fluorim., effect of traffic on results in, 3G16
- of B in, fluorim. or spectroph., 3G11
- of Br in, by g.l.c., as 2-bromoethanol, 5F50
- of butonate and its metabolites in, chrom., 4H30
- of Cd, Cu, Ni and Zn in, by sorption - XRF, 3G8
- of Cd and Pb in, by atom-trapping a.a.s., 2G3, 3J74
- of Cd, Pb and Hg in, spectroph., 3F36
- of ^{137}Cs in, comparison of methods for, 4H2
- of Ca in exchangeable form in, spectroph., 5G12
- of carbamate pesticides in, by h.p.l.c., 5G37
- of carboxylate and carbosulfon in, by g.c., 3G42
- of carbonate-C in, by acid digestion - two-end-point titrim., 1G12
- of cation-exchange capacity and exchangeable cations in, 4G7
- of ClO_3^- or Ti in, difference chronoamperom., 2H57
- of chlorinated naphthalene deriv. in, by g.c. and liquid chrom., 6A5C
- of chlorothalonil in, by g.l.c. or t.l.c., 6G32
- of Cu, Pb and Zn in air in, stripping potentiom., 3G9
- of DDT and HCH in, ring colorim., 6G29
- of diflubenzuron and permethrin in, by g.c., 6G35
- of elements in, emission spectrom., 2G2, 6G7, 6G8
- use of correlations in, 2J109
- extraction methods for, 1G8, 1G9
- using three-electrode plasmatron, 6H1
- of elements in extracts of, comparison of methods for, 1J111
- of elements in leachate from, 1H49
- of exchangeable cations in, spectroph., 6G9
- of Ge in, spectroph., 5B98
- of glyphosate in, liquid chrom., 3G36
- of herbicidal phenoxyalkyl acids and their esters and salts in, by g.l.c., 2G9
- of herbicides in, by t.l.c. - densitom., 6G26
- of insect attractants in, by g.l.c., 6G39
- of ^{129}I in, by n.a.a., 1H71
- of Fe in, spectroph., 3B133
- of Pb in, by a.a.s., 1G13
- of Mn in, spectroph., 5B139
- of Mo in, spectroph., extraction method for, 3B124
- of NO_3^- and NO_2^- in, by flow-injection - spectroph. method, 6H44
- of NO_3^- , PO_4^{3-} and SO_4^{2-} in, ion chrom., 6G14
- of NO_2^- in, spectroph., 5H66
- of N in, comparison of methods for, 1G14
- of $[^{15}N]N_2O$ evolved from, after treatment with labelled fertiliser, by m.s., 5G13
- of organochlorine pesticides and related compounds in, by r.i.a., review, 3G30
- of oxamyl and its oxime in, by h.p.l.c., 1G37
- of oxime carbamate pesticides in, by h.p.l.c., 5F38
- of phenolic compounds in, by h.p.l.c., 4G9
- of PO_4^{3-} in, spectroph., effect of pH in molybdenum blue method for, 3G14
- of P in available form in, extraction methods for, 6G13
- of P in inorg. form in, spectroph., 6G12
- of Pu in, by volatilisation - α -spectrom., 6D29
- γ -spectrom., system for, 4J124
- of PCB in, by chemical-ionisation m.s., 2H88
- of polychlorinated dibenzo-p-dioxin or dibenzofuran deriv. in, by g.c. or g.c. - m.s., 2G4
- of PAH in, by quasi-line luminescence and excitation spectra, 6H4
- Soil determination—continued**
- of pulegone in, by t.l.c. - densitom., 6C70
- of Rn in air in, using opened counting phial and liquid scintillation counter, 3G10
- of ^{222}Rn daughter nuclides in air in, with automatic collection - counting apparatus, 1G11
- of reducing substances in, voltamm., 3G7
- of Se in, cathodic-stripping catalytic polarogr., 3B116
- of ^{86}Sr in samples taken near waste-disposal sites, by n.a.a., 3B49
- of S in, spectroph., 4D35
- of Ti in, spectroph., 6D36
- of V in, spectroph., 2H64
- of H_2O in, calibration of neutron probes for, 4G8
- of Zr in, spectrogr., 6G10
- extraction of org. matter from, by supercritical gases, 3G15
- extraction and analysis of interstitial water from, 5H48
- extraction and detmn. of tannins in, 1G16
- heavy-metal contamination of Biscay, 2A2C
- pyrolysis - g.c. - m.s. study of low-org. - matter calcareous, 1G10
- sampling of, comparison of methods for, 4G6
- for environmental specimen banking programme, 1G1
- sepn. of anions in extracts of, by h.p.l.c., 6J24
- thermoanalytical study of, 1B190
- Solamargine**, detmn. in extracts of *Solanum laciniatum* leaves, by centrifugal t.l.c. - h.p.l.c., 2D207
- Solanum laciniatum**, detmn. of solasodine in, spectroph., 1E27
- isolation and detmn. of glycoalkaloids in extracts of leaves of, by centrifugal t.l.c. - h.p.l.c., 2D207
- Solasodine**, detmn. in extracts of *Solanum laciniatum* leaves, by centrifugal t.l.c. - h.p.l.c., 2D207
- in *Solanum laciniatum*, spectroph., 1E27
- Solders**, analysis, by γ -ray-induced X-ray emission, 2J85
- Solvent extraction**, apparatus for large-scale solid - liquid, 3J9
- applications of, in detmn. of metals, review, 4B4
- of ion-pair, in pharmaceutical and biomedical analysis, review, 6E1
- information-retrieval system for, 2A20
- new journal, 3J13
- of metal ions by chelating ligands, review, 1B3
- reactions, mixtures and complexes used in co-extraction, review, 3A3
- Solvents**, detmn. of O in, amperom., 5B124
- c.s.r. probe of polarity of, 3C2
- solvation, ionic and complex-formation reactions in non-aq., 1A31B
- , **organic**, analysis of vapours of, automated g.c. system for, 4H19
- detmn. of hydroxy-compounds in hydrocarbon, spectroph., 3C20
- of residue content of, BSI method for, 5C4
- of V in, by kinetic - spectroph. method, 4B125
- of H_2O in, by g.c., 1C13
- with high-resolution calorimeter, 4C7
- identn. and detmn. in paints, by computer-aided g.c., 2C124
- sepn. and identn. of components of mixtures of, by head-space g.l.c. - u.v. spectroph., 2C2
- solvophobicity scale of eluotropic strength of, 4C1
- Soman**, detection, by enzyme immunoassay, 4C91
- Somatostatin C**, detmn. in blood, by r.i.a., 1D189
- Somatostatin**, detmn. in blood plasma, by r.i.a., extraction method for, 2D230
- Soot**, analysis of exhaust-gas, 3C80
- detection of 2,3,7,8-tetrachloro-dibenzo-p-dioxin and -dibenzofuran in samples from transformer explosion, by h.p.l.c. - g.c. - m.s., 3C86
- detmn. in air, electron microsc., 6H19
- of fatty acids in, liquid chrom. - m.s., 2H31
- of naphtho[2,1,8-*gr*]naphthalene in, by g.c. - m.s. or by h.p.l.c., 1C60
- of tetrachlorobiphenylene in, by g.c. - m.s. - m.s., 2H3
- identn. and detmn. of isomeric chlorinated dibenzodioxin deriv. in wood, liquid chrom. - g.c. - m.s., 1H38
- Sorbic acid**, detmn., second-deriv. u.v. spectrosc., 5F17
- in cheese or sour milk preparations, by h.p.l.c., 3F35
- in foods, by g.l.c., 5F15
- by g.l.c. of TMS ester, collaborative study of, 5F14
- by h.p.l.c. or by steam-distillation - u.v. spectroph., 2F14
- in pharmaceutical preparations, by h.p.l.c., 3E77
- Sorbitan esters**, analysis, by h.p.l.c., 6F15
- Sorbitol**, detmn. in foods, by h.p.l.c. of benzoyl deriv., 5F7
- in wine, liquid chrom. - triple-pulse amperom., 5F68
- of heavy metals in, voltamm., 3E1
- Sorghum**, analysis of sugars in hydrolysates of fibres of, by h.p.l.c., 3G2
- detmn. of lysine and protein in, rapid methods for, 4G4
- of N, P and K in, by n.a.a., 5G2
- of Ti in, differential pulse polarogr., 6G3
- of zeaxanthone in, by t.l.c., 5G9
- Soursoop juice**, analysis of volatiles in, by trapping on Porapak Q - g.l.c., 3F45
- Soy sauce**, analysis of volatile constituents of, by g.l.c., comparison of techniques for, 1F37
- detmn. of Na benzoate in, by g.c., 4F55
- Soya beans**, detmn. of D-amino-acids in flour of, by g.l.c. of N-pentafluoropropionyl deriv. of isopropyl esters, 1F7
- of Cu speciation in, 1F3
- of CN^- in, spectroph., 4G2

Soya beans, determination—continued

- of metribuzin and its metabolites in plants of, by h.p.l.c., 4G15
- of N, P and K in, by n.a.a., 5G2
- of protein of, in meat - soya blends, by enzymic - spectroph. detmn. of galactose plus arabinose, 2F20
- of purine deriv. in preparations of, enzymic - u.v. spectroph., with centrifugal analyser, 1F6
- of Ti in, differential pulse polarogr., 6G3
- sepn. of glyceollins in seedlings of, by t.l.c., 5G7
- Soya-bean meal**, detmn. of element speciation in, review of sepn. procedures used for, 6F2
- of residual hexane in, by head-space g.l.c., 2G6
- of Se in, by a.a.s., 4D37
- Soya-bean oil**, detection in sunflower-seed oil, by g.l.c. detmn. of fatty acid ethyl esters, 1F54
- of adulteration of, by g.c. of fatty acid methyl esters, 5F71
- detmn. in antibiotic fermentation mixtures, by t.l.c., 6E24
- of BHA, BHT and TBHQ in, by g.l.c., 4F77
- of PAH in, by g.l.c. - m.s., 2F40
- of tocopherols in, by h.p.l.c., 3F54
- gel-chrom. and t.l.c. studies of heated, 3F55
- Soya-bean products**, detmn. of CN⁻ in, spectroph., 4G2
- Spartina alterniflora*, detmn. of glucosamine and muramic acid in extracts of, ion-exchange chrom. - g.c. of methoxime acetates, 2D117
- Spectroelectrochemical analysis**, see under *Electrochemical analysis*
- Spectrofluorimetry, gamma-ray nuclear resonance**, applications of, in metal science, review, 2B2
- microcomputer-controlled instrument for, 2A29
- Spectrometry, Auger-electron**, analysis of surfaces by, review, 1J146
- analytical applications of, 4J99
- apparatus for, for studies of radioactive materials, 3J91
- applications of, in metal science, review, 2B2
- background correction for peak-height measurements in, 4J100
- correction factors and sputtering effects in quantitative, 4B46
- data acquisition and processing modes for quantitative, 3J92
- detection limits in surface micro-analysis by, review, 4J101
- from solid interfaces, review, 6J113
- review, 6J112
- sample preparation for surface analysis by, 5J136
- standards for analysis of surfaces by, 3A22
- studies of metals and alloys by X-ray-excited, review, 1J147
- studies of solid surfaces by, review, 2J133
- Spectrometry, electron spin resonance**, application of radical-containing reagents to detmn. of metals by, review, 5B7
- interface and software package for data collection, storage and reduction in, 6J110
- Spectrometry, forward-scattering**, multi-element detection by, in transverse magnetic field, 2J107
- Spectrometry, gamma-ray**, array of planar germanium detectors for *in situ*, 4J124
- comparison of data-processing methods in, 6J123
- Compton-suppression instrument for, for low-level counting, 4J125
- computer program for analysis of spectra in, 3A30
- computer simulation of spectra in, 4J126
- estimation method for generating scintillator response curves for, 3J133
- optical display of pulse-height distribution in windows of single-channel analysers, 2J161
- use of minicomputer for processing of spectra in, 6J122
- Spectrometry, ion-mobility**, use of laser multi-photon ionisation of org. compounds, in, 6C4
- Spectrometry, ion-scattering**, spatial enhancement and restoration of chemical images from, 4J108
- Spectrometry, laser-enhanced-ionisation**, continuous-wave excitation in, 3J86
- evaluation of electrode configurations for high-voltage interferent removal in, 5J137
- pulsed-signal collection for, 4J92
- Spectrometry, mass**, see *Mass spectrometry*
- Spectrometry, nuclear magnetic resonance**, abstract factor analysis of solid-state spectra in, 4J97
- analytical applications of high-resolution, review, 4A22
- annual report on, 3J126B
- basic requirements and overall design of systems for, 6J109
- ¹³C, interactive computer system for simulation of spectra in, 6A26, 6C32
- software for quantitative analysis by, 4J98
- computer program for structure recognition of complex molecules by, 4A27
- library of spectra, 4J118B
- optimal experimental parameters for quantitative pulse FT, 3J90
- shift reagents for, 2A13
- studies of solids by high-resolution, review, 6J108
- Spectrometry, optogalvanic**, analytical applications of, review, 6J107
- Spectrometry, photoacoustic**, cuvette for, permitting simult. fluorim. and two-photon photo-ionisation measurements, 2J127
- effects of concn. and of sample-preparation method in studies of powdered samples by, 1J144
- infra-red, applications in polymer analysis of FT, 6A3C
- use of wavelength modulation in studies of gases by, 5J135
- open cell for, 6J104

Spectrometry, photoacoustic—continued

- principles and applications of, review, 6J103
- reviews, 1J142, 1J143
- Spectrometry, photoelectron, X-ray**, applications of, in metal science, review, 2B2
- applied, 2J157B
- basic assumptions and recent developments in quantitative, review, 1J148
- detection limits in surface micro-analysis by, review, 4J101
- modified instrument for, for studies of X-ray photoelectron diffraction, 6J111
- sample preparation for surface analysis by, 5J136
- standards for analysis of surfaces by, 3A22
- Spectrometry, Raman**, analysis of surfaces by, review, 2J132
- analytical possibilities of, 4A1C
- cryostat for resonance studies of frozen protein soln. by, 6J106
- diamonds for use in high-pressure diamond-anvil cells for, 6J102
- fibre-optic probe for remote studies by, 1J145
- micro-probe, 1A1C
- review, 2J131
- spinning cell for studies of low-temp. resonance spectra in, 6J105
- vibrational intensities in, 2J156B
- Spectrometry, Rutherford back-scattering**, analysis of thin layers by, 1J176
- Spectrometry, thermal wave imaging**, cross-correlation techniques for signal recovery in, 4J96
- Spectrophotometry, absorption**, analysis of mixtures by, evaluation of sensitivity towards errors of absorption measurement in, 3J68
- apparatus for, computer interface for diode-array-based, 5J105
- computer interface for stopped-flow, 5J106
- microcomputer-interfaced stopped-flow, with interactive graphics, 4J93
- methods for monitoring temp. in automated, 5D2
- user-programmable, 6J81
- automated multi-component analysis by, 4A25
- conditions for formation of isosbestic points on spectra in, 5A22
- deriv. technique for, review, 6J80
- using Specord u.v. - visible instrument, 1J104
- effect of analogue-to-digital converter resolution on measurements in, 3J69
- importance of co-extraction in, review, 3A3
- quantitative studies at low temp. by, 1J108
- simulation of linear-parameter estimation in, 2A23
- Spectrophotometry, absorption, infra-red**, analytical usefulness of mini-computer-coupled, 4A1C
- application of microcomputer system in, 2J130
- computer program for structure recognition of complex molecules by, 4A27
- computerised search system for, 1A29
- diamonds for use in high-pressure diamond-anvil cells for, 6J102
- graphical representation of data in, with use of microcomputers, 1A27
- photoacoustic cell for surface studies by FT, 2J129
- preparation of easily oxidised or deliquescent samples of organometallic compounds for, 4C26
- pyrolysis - FT, 6A3C
- rapid quantitative routine analyses using, 2J128
- resolution enhancement of spectra in, by self-deconvolution, 1J138
- search system for spectra from combined m.s. and, 6A27
- storage, retrieval and analysis of spectra in, 6J101
- techniques for, using FT interferometry, 1J179B
- use of factor analysis for sepn. of pure-component from mixture spectra in, 4J95
- vibrational intensities in, 2J156B
- width-enhanced binary representation for library searching of vapour-phase spectra, 3A27
- Spectrophotometry, absorption, ultra-violet**, apparatus for, user-programmable, 6J81
- closed-loop pumping system connecting spectrophotometer with potentiometer, apparatus, 3J70
- computer-controlled system for studies of second-deriv., deconvolution and second-deriv. - deconvolution techniques in, 4E64
- graphical representation of data in, with use of microcomputers, 1A27
- Spectrophotometry, atomic-absorption**, 2J155B
- apparatus for, high-resolution, with resonance flame detector, 1J114
- improvements in, for use in biomedical research, 6D16
- performance characteristics of continuum-source wavelength-modulated, 6J83
- using flame resonance spectrometer with continuum source, 5J111
- atomisation in, carbon-rod devices for, 2J103
- electrothermal, using L'vov platform, 5B20
- formation of absorbing layers of atoms in semi-enclosed devices for, 3J73
- furnaces for, detmn. of efficiency of graphite, 2J104
- effects of design of, on operation, sensitivity and matrix interferences, 6J87
- new design of graphite, 2J101
- vapour expulsion and loss from graphite, 5J116
- with independent control of volatilisation and atomisation conditions, 4J84

Spectrophotometry, atomic-absorption, atomisation in—*continued*

- furnaces for constant-temp., 1J115, 2J102
 heating programmer for tungsten-filament device for, 5J113
 improved performance of Varian carbon-rod, 1J116
 in graphite furnace under pressure, for control of spectra-line overlap, 5J114
 metal micro-tube devices for electrothermal, review, 6J86
 micro-drop sample application in electrothermal, 5J110
 pyrometric feedback system used with background-monitoring device in, 6J89
 two-stage, for use in metal-speciation studies, 5J117
 vitreous-carbon tubes for, 2J100
 heating characteristics of, 5J115
 with stabilised-temp. platform furnace, review, 6J90
atom-trapping technique for, 3J74
 automation of thermochemical studies using, 1J118
 background correction in, by means of self-reversal, 5J119
 with use of line-spectrum source, 1J120
 bibliography, 2J95
 burner for, with separated fuel and sample introduction, 6J82
 with thermal vaporiser, 6J88
 compared with ICP a.e.s., 1J111
 comparison of wet-chemical dissolution and direct methods for automated, 2B4
 effect of addition of graphite powder for formation of dry particles in, 6B147
 errors arising in use of signal integration to compensate for loss of peak height in, 3J76
 explosion hazard in, 4A28
 flame technique for, miniature hydride generator for, 6J85
 re-use of stored working curves in, 1J121
 spatial and spectral cross-correlations in noise in, 5J112
 system for semi-automatic introduction of small liquid samples in, 5J109
 use of low-temp. flames in, 5B6
 in flow-injection analysis, review, 1J117
 interference by org. solvents in graphite-furnace, 5J118
 interferences in graphite-furnace, review, 1J119
 light source for, 2J96
 de-mountable cathode lamp as, 5J107
 filter for inert-gas lines in hollow-cathode, 2J97
 limiting factors for intensity and line profile of radiation sources for, review, 1J113
 microcomputer system for processing data in three-channel, 6J92
 precision functions for optimisation of methods in, 3B19
 programmable calculator programs for use in, 3A26
 reduction of matrix interferences in, 2J105
 review of furnace technique for, 1J112
 sample introduction in, automatic device for, 2J98
 flow-injection methods for, 2J99
 sample pre-concn. by continuous-flow extraction for, 1B11
 sampling device for discrete injection in, 5J108
 slurry nebuliser for, 6J84
 Zeeman, reviews, 3J72, 6J90
 theory, properties and efficiency of direct, 6J91
- Spectrophotometry, atomic-fluorescence**, correction of scattering in ICP-excited, 5J133
 flame technique for, spatial and spectral cross-correlations in noise in, 5J112
 light source for, 2J96
 de-mountable cathode lamp as, 5J107
 sectored-wheel wavelength modulation in, 4J91
 studies of analytical laser plumes by, with laser micro-probe system, 6J100
 with laser excitation in ICP, 2J120, 4J90, 5J132
- Spectrophotometry, reflectance**, near-i.r., applications of, in baking industry, review, 1F18
 development of instruments for, and potential applications of, 1J140
 studies of diffuse, using i.r. dispersive spectrophotometers, 1J141
- Spectroscopy**, analytical apparatus for use in aq. systems, 6J75
 applications of high-velocity molecular beams in, 4J77
 biomedical applications of deriv., review, 3D6
 compilation of computer-readable data banks as aid in elucidation of org. compounds in, 4J79
 computer-enhanced (new journal), 6J120
 construction of calibration graphs in analysis by, with calculation of *a priori* information, 1J97
 cuvette for simult. time-dependent measurements in, 1J96
 data-management system for atomic, 1A28
 digital smoothing of noisy spectra, 4J78
 errors arising in automatic data compiling and processing in, 5A23
 measurement of aerosol transport efficiency in atomic, 2J114
 multiplex methods in atomic, review, 4J83
 optimisation of conditions for, review, 6A11
 optimisation of procedures for, review, 1J18
 report of conference on optical micro-probe, 1A1
 requirements for compilations of reference spectra, 1J95
 safe burner for flame techniques for, 1J110
 standards for, 1A33B

- Spectroscopy, emission**, analysis of liquid samples by, with use of scanned electrode, 2J108
 of non-conductive powders by, compared with spark-source m.s. analysis, 5J120
 apparatus for, for detmn. of trace elements in non-aq. samples, 3J82
 for surface analysis of metals, 3B3
 versatile computer-controlled direct-reading, 6J93
 applications of, in analysis in iron and steel industry, review, 2B145
 applications of line-width measurements in spectrogr. techniques, 5J122
 atomisation in, constant-temp. Woodruff-type device for, 4J86
 with graphite probe in graphite furnace, 4J85
 burner for, with separated fuel and sample introduction, 6J82
 comparison of sample-selection methods for, 2J106
 development and status in China of, 2J111
 distribution of products of laser erosion on substrate and its use in, 3J78
 effect of N on emissions from atmospheric-pressure helium microwave plasma, 2J118
 effect of H_2PO_4 in detmn. of metals by, 4B11
 evaluation of diffracted stimulated emission as potential analytical technique in, 4J76
 evaluation of spectrograms in, review, 1J124
 excitation in, in counter-electrode gas chamber, 3J80
 modified electrode for UHF plasma torch for, 5J123
 modified TM_{010} cavity for microwave-induced plasmas for, 1J131
 three-phase Ar-plasma arc for, 6J96
 with Grimm discharge lamp, 5J121, 6J94
 with laser in single-pulse mode, 3J79
 exploding conductors as atomisation cells and excitation sources for, review, 1J109
 flame techniques for, sample introduction for, review, 5J125
 spatial and spectral cross-correlations in noise in, 5J112
 FT i.r.-spectrom. study of emission intensities of films of org. compounds, 1J139
 ICP technique for, analysis of environmental samples by, 2A2C
 assembly for spatial translation of torch for, 1J126
 assessment of prominent lines in, 6J98
 compared with a.s.s., 1J111
 computer-controlled monochromator for, 5J130
 correlation of analytical signal to characteristics of sample aerosol in, 5J129
 correlation study of internal standardisation in, 2J119
 design of sample-introduction and plasma-generating system for, 2J115
 effect of ethanol in, 6B13
 elimination of fluctuations in spray-chamber pressure in, 2J113
 empirical power balances for Ar plasmas for, 5J127
 enhanced sensitivity by use of volatile species in, 1J129
 evaluation of sequential and simult. detection in analysis of complex samples by, 4J89
 fast-FT study of frequency-domain spectrum of source for, 2J117
 HF-resistant sample-introduction system for, 1J128
 limits of precision in, 5A24
 on-line dilution system for, 5J128
 pneumatic re-circulating nebuliser system for, 2J112
 problems arising in trace analysis of complex matrices by, review, 1J125
 review, 5J124
 sample introduction into plasma for, by electrothermal carbon-cup vaporisation, 1J127
 interference in use of graphite-rod device for, 5J131
 microprocessor-controlled graphite-rod device for, 6J97
 review, 5J125
 with micro-arc atomiser, 4J88
 system for reducing spectral interferences in multi-element analysis by, 3J84
 thermal vaporisation for one-drop sample introduction into plasma for, 4J87
 use of laser ablation in analysis of solid samples by, 5J126
 use of microcomputer in sample handling in automated, 2J122
 used in conjunction with flow-injection analysis, 2J121
 with internal standardisation and subtraction of plasma background fluctuations, 3J83
 influence of material of support electrodes on line intensity with spark discharge in, 1J123
 mol.-emission-cavity technique for, silicon-intensified target camera as detector for, 3J85
 platform atomisation in carbon-furnace, 6J95
 resonance current generator for arc-source, 3J77
 simult. multi-element analysis by carbon-furnace, 2J110
 simult. optimisation of multi-element analysis by, 2J116
 spatial discrimination in spark technique for, 1B71
 standards for, 1A33B
 studies of non-conducting materials by, with boosted-output glow-discharge source, 4B165
 surface analysis by glow-discharge, 3J81
 technique for use with large samples, employing scanning electrode, 1J122
 use of correlations to improve precision and accuracy in, 2J109
- Spectroscopy, emission, X-ray**, analysis of environmental samples by, 2A2C

Spectroscopy, emission, X-ray—continued

- apparatus for, portable, for use in ore prospecting, 3B165
 using total-reflection monochromator, 3B86
 apparatus for standardisation of amplifier - transformer channel of, 6J78
 applications of, in metal science, review, 2B2
 applications of Hg_L detectors in, review, 5J102
 automatic identn. of elements contributing to maxima in, 4J81
 basis of metrological characteristics of spectrometers for, 6J76
 calculation of intensity of radiation from X-ray tubes with metal anodes for, 3J63
 calibration procedures in, 5J103
 computerised concn.-ratio detmn. for thin films studies by electron-microsc., 1A26
 decreasing detection limits of heavy elements in, 6B71
 effect of sample heterogeneity in calculation of fluorescence intensity in, 6B4
 energy-dispersive, evaluation of dead-time correction in, 2J90
 general equation for background in, 3J65
 in transmission electron microscope, system for, 1D17
 influence of fluorescence vol. in, 2J89
 excitation in, with linear polarised X-ray beam after Bragg reflection from single crystal, 5J100
 with proton-induced X-rays, 3B2
 with sealed ²¹⁰Po α -ray source, 5B5
 γ -ray-induced, non-destructive analysis by, 2J85
 gelatin films as calibration standards for analysis of thin samples by, 1J98
 method of additions in, 2J91
 particle- and photon-induced, trace analysis by, review, 6B5
 proton-induced, analysis of thick targets containing light elements by, 2B3
 calibration of standards for calibration of systems for, 6B6
 comparison of methods for eliminating charge build-up on insulating samples in, 3J67
 detmn. of elements in single cells by, 3D19
 detmn. of parameters of depth profiles by, 1J103
 effect of elastically scattered protons on energy resolution of detectors in, 5J101
 elemental analysis of thick samples by, 3J66
 facility for simul. studies using proton activation and, 1J181
 sample characterisation by, reviews, 1J101, 1J102
 quantitative analysis by, with use of fundamental influence coeff., 2J92
 rapid method of isotope, 3J61
 sample treatment and optimisation of measurement parameters for, 6J77
 sample-preparation procedure for, 2J84
 source configuration for trace analysis of small samples by, 5J99
 spectrometer for, with position-sensitive wire detector, 2J88
 synchrotron-radiation-induced, 2J87
 sensitivity calculations for multi-element trace analysis by, 3J64
 two-stage ²³¹Am X-ray source for, 3J62
 wavelength-dispersive, double-measurement technique in automated micro-analysis by, 6J79
- Spermidine**, detection, by h.p.l.c. of deriv. formed with 4-fluoro-7-nitrobenzofurazan, 5D117
 detmn., amperom., enzyme electrode for, 3D199
 as l-pyrroline, by chemiluminescence immunoassay, 4D201
 in blood-plasma hydrolysate, by h.p.l.c., 3D198
 in urine, with automated amino-acid analyser, 5D118
 by t.l.c. of dansyl deriv. - fluorim., 6D196
- , **N⁶-acetyl-**, detmn. in urine, with automated amino-acid analyser, 5D118
- , **N⁶-acetyl-**, detmn. in urine, with automated amino-acid analyser, 5D118
- Spermine**, detection, by h.p.l.c. of deriv. formed with 4-fluoro-7-nitrobenzofurazan, 5D117
 detmn., amperom., enzyme electrode for, 3D199
 in blood-plasma hydrolysate, by h.p.l.c., 3D198
 in urine, by t.l.c. of dansyl deriv. - fluorim., 6D196
 with automated amino-acid analyser, 5D118
 sepn. from thermospermine, by t.l.c., 6D197
- Sphalerite**, detmn. of Ga and Ge in, by spark-source m.s., 1B192
- Sphingomyelin**, detmn. in blood serum, enzymic - spectroph., 6D180
 in brain- or liver-tissue lipids, by t.l.c., 3D171
 of phosphatidylcholine - sphingomyelin ratio in amniotic fluid, effects of phospholipid saturation in, 2D159
 necessity for acetone pptn. step in, 2D158
 sepn. from phosphosphingomyelin, liquid chrom., 4D164
- Sphingomyelin phosphodiesterase**, see under *Enzymes, specific*
- Sphingosine**, detmn. in spleen or thymus tissue, by h.p.l.c., 3D172
- Spices**, BSI method for detmn. of filth in, 5F57
 detmn. of ethoxyquin in, by t.l.c. - fluorim., 6F51
 of rosmarinic acid in leafy, liquid chrom. - g.c. of TMS deriv., 1F34
 particle size analysis, by laser-light scattering, 4F2
- Spinach**, detmn. of carbofuran and its metabolites in, by h.p.l.c., 1G38
- Spiramycins**, detmn., by h.p.l.c. or t.l.c., 6E28
- Spirolactone**, detmn. of content uniformity of preparations of, polarogr. or u.v. spectroph., 1E5
- Spleen tissue**, detmn. of loxapine in, by g.l.c. - m.s., 1D74
 of sphingosine in, by h.p.l.c., 3D172
- Sputum**, detection of branched-chain fatty acids in, by g.l.c. of methyl esters - m.s., as indication of mycobacterial infection, 1D119
 isolation of amosite asbestos and ferruginous bodies from, 5D23
- Squalene**, reversed-phase t.l.c. study of, 2D170
- Stachyose**, secondary-ion m.s. study of, 3D13
- Starch**, detmn., enzymic - electrochem., 3F14
 comparison of dispersion methods for, 3F15
 measurement of O-consumption rate in, 3F16
 in meat products, enzymic, 4F34
 of As in, by a.a.s., 3C102
 of poly(vinyl alcohol) in, spectroph., 6C78
 of H₂O in, near-i.r. photoacoustic spectrom., 6F20
 identn. in heroin powder, by iodine reaction, 1E22
- , **carboxymethyl-**, detmn. of substitution degree of derivatised, spectroph., 6F21
- , **hydroxyethyl-**, analysis, by g.l.c., 1C27
 detmn. of molar substitution ratio of, by semi-automated g.c., 4E87
- Stearate, 9,10-epoxy-**, identn. in blood plasma, by g.l.c. - m.s., 4D156
- Stearic acid**, detmn., potentiom., with Ca²⁺-selective electrode, 4A18
 in iron oxide pigments, potentiom., 1C125
- **esters, allyl**, preparation and analytical data for, 4C86
- , **vinyl**, preparation and analytical data for, 4C86
- **magnesium salt**, detmn. of heavy metals in, voltamm., 3E1
- Stearyl acrylate**, preparation and analytical data for, 4C86
- Stearyl methacrylate**, preparation and analytical data for, 4C86
- Steel**, analysis, certified reference materials for, 4B170
 use of spectrochem. techniques and computers in, review, 2B145
 of rapid-cutting, review of physico-chemical methods for, 1B158
 application of variance analysis for study of homogeneity of, 4B1
 of XRF in production of, 3B136
 detmn. of Al in, spectroph., 1B165
 of Al in sol. form in, emission spectrom., 1B161
 of Al and Fe in, ion-exchange chrom. - a.a.s., 6B148
 of Sb in, a.c. stripping voltamm., 2B148
 of As in, spectroph., 4B182
 of B in, emission spectrom., 6B152
 emission spectrom. or spectroph., 1B163
 photom., elimination of Nb and Ta interferences in, 1B164
 spectroph., 5B63
 of C, Mn and Si in, giant-pulse laser spectrochem., 1B160
 of Ce in, by co-pptn. with LaF₃ - spectroph., 4B178
 spectroph., 4B76
 of Ce-group lanthanoids in, spectroph., 6B70
 of Cr in, by flow-injection - a.a.s. methods, 1J117, 2J99
 by flow-injection - spectroph. method, 2B128
 potentiom., with ion-selective electrode, 6J145
 spectroph., 6B129, 6B130
 of Cr, Co and Si in, proton-induced prompt-photon spectrom., 5A4C
 of Cr, Cu, Ni and Mo in, emission spectrom., 5J126
 of Co in, spectroph., 4B189, 5B149
 of Co in nickel, spectroph., 2B153
 of Cu in, by a.a.s., 4B175
 spectroph., extraction method for, 5B147
 u.v. spectroph., 1B36
 of Cu, Mn and Ni in, spectroph., 1B162
 of depth profiles of elements in surfaces of, emission spectrom., with glow-discharge lamp, 6B151
 of elements in, Auger-electron spectrom., 3B140
 by n.a.a., 5B194
 by plasma-source m.s., 2J146
 by XRF, estimated binary calibration curve method in, 1B159
 emission spectrom., 1B161, 2B18, 4B169, 5J121, 6J94
 use of correlations in, 2J109
 spectrogr., in flowing gas atmosphere, 3B137, 3B138, 3B139
 of Mn in, amperom., 2B137
 of Mo in, oscillogpolarogr., 2B132
 spectroph., 3B125, 4B144, 4B185, 6B136
 extraction method for, 3B124
 of Ni in, complexom., 4B186
 spectroph., 2B155, 3B150
 of Nb in, by n.a.a., 3B143
 emission spectrom., 2B117
 spectroph., 4B183, 5B123
 of nitrides in, by dissolution - Kjeldahl analysis, and of uncombined N in, by H extraction, 3B141
 of O in molten, design of probes for, 6B153
 of P in, elimination of W interference in spectroph. method for, 4B181
 emission spectrom., interferences in, 3B142
 of P and Si in, spectroph., 4B179
 of rare-earth metals in, spectroph., 2B147
 of rare-earth metals, Y and Zr in, forced-flow liquid chrom. - spectroph., 4B177
 of Si in, by indirect a.a.s., 1B166
 of S in, spectroph., 6B154
 of Ti in, spectroph., 3B97, 6B104
 of W in, by isotope dilution - m.s., 6B155
 spectroph., 3B125, 3B126, 5B133

Steel, determination—continued

- of V in, amperom., 4B130
- amperom. or potentiom., 5B148
- by a.a.s., 4B128
- coulom., 3B17
- spectroph., 1B167
- with extraction into molten naphthalene, 4B132
- electron-microsc. study of Cr, Mn and Si partitioning in, 1B8
- grain sizing in, by automatic image analysis, 4A21
- sampling of liquid, 5B146
- secondary-ion m.s. study of corrosion of Al - Zn-coated, 6A7C
- , **inclusions in**, analysis of sulphide, review, 4B184
- , **stainless**, analysis of films containing C (or Si) and, with electron micro-probe, 5B188
- detmn. of element distribution in, by laser irradiation - XRF, 2B146
- flow lines and elemental inhomogeneities in austenitic, 1A1C
- Steranes**, detmn. of distribution of, in petroleum, by g.c. - m.s., 3C70
- Sterigmatocystin**, detmn. in mouldy foods, by t.l.c., 2F18
- Steroid arylsulphatase**, see under *Enzymes, specific*
- Steroids**, analysis, by g.c., review, 1J67
- by g.c. - chemical-ionisation m.s., 2D172
- of blood-plasma, by immunoabsorption - g.c. - m.s., 2D173
- of insect hormones, with use of radial-compression sepn. system, 2D184
- of mixture of [³H]-, by g.c., 1J92
- of urinary, by g.c. of methoxime - TMS deriv., 5D113
- by g.c. - m.s., degradation of deriv. in, 1D138
- by secondary-ion m.s., 2D174
- by semi-automated g.l.c., 1D137
- design of immunoassays for, 3D187
- detmn. in urine, by g.c. - m.s., 3D10
- of radio-purity of [³H]-, by h.p.l.c., effects of isotopic fractionation in, 5E25
- extraction from urine, with Sep-Pak C₁₈ cartridges, 6D186
- identn. in extracts from microbial conversion of sterols, mass-analysed ion-kinetic-energy spectrom., 2D171
- identn. and detmn. in mycobacterial cholesterol fermentation products, by mass-analysed ion-kinetic-energy spectrom., 1D139
- isolation, identn. and detmn. in biol. materials, review, 4D170
- sepn., liquid chrom., 4J30
- sepn. and detmn. of C₂₁, by h.p.l.c., 1D142
- of radio-labelled, by h.p.l.c., 1D136
- **glucuronides**, analysis of mixtures of, liquid chrom. - negative-ion chemical-ionisation m.s., 5J52
- **sulphates**, identn. and detmn., by fast-atom bombardment m.s., 2D175
- sepn. of metabolites of, gel chrom. - g.l.c. of methoxime - TMS ether deriv., 6D186
- Steroids, hydroxy-**, detmn., by h.p.l.c., derivatisation with anthronitriles for, 4D173
- , **17-oxo-**, extraction from urine, comparison of methods for, 2D176
- Sterols**, analysis of olive-oil, by t.l.c. or by t.l.c. - g.l.c., 4F74
- detmn., by ¹⁹F n.m.r. of pentafluoropropionyl deriv., 3E9
- in vegetable oils, by g.l.c., 1F55
- of free and esterified, in faeces, by g.l.c., 1D134
- identn. and detmn. in sediments, by g.c., 1H76
- reversed-phase t.l.c. study of, 2D170
- sepn. and detmn. in faeces, by t.l.c. - g.l.c., 4D171
- Stevioside**, detmn. in *Stevia rebaudiana*, enzymic, 6D155
- Stigmastanol**, detmn. in faeces, with its metabolites, by g.l.c., 1D134
- Stilbene, 4,4'-diamino-**, detmn. in presence of 4,4'-diaminobenzyl, u.v. spectroph., 6C38
- Stilbene-2,2'-disulphonic acid, 4,4'-bis-(1,3,5-triazin-2-ylmino)-, derivatives**, detmn. of *cis-trans* isomer ratio in, spectroph., 3C95
- Stilboestrol**, chrom. methods for analysis of creams containing, 1E2
- detection in poultry tissues, by t.l.c., 3F26
- detmn. in blood plasma, by g.c. - m.s., review, 1D97
- in creams, by h.p.l.c., 2E1
- in liver tissue, with its metabolite, by r.i.a., 4D123
- identn. and detmn. in urine, by h.p.l.c. - g.c. of TMS deriv. - m.s., 2D98
- Straw**, characterisation of polycyclic aromatic compounds in emissions from combustion of, liquid chrom. - g.c. - m.s., 1H37
- detmn. of chlorsulphuron in, by h.p.l.c., 1G26
- Strawberries**, detmn. of dithiocarbamate fungicides in, by h.p.l.c., 3G37
- of total volatile org. acids in, by steam-distillation - titrim., 2F33
- Streptomycin sulphate**, detection of penicillin in preparations of, by t.l.c., 1E38
- Stresnil**, see *Azaperone*
- Strontium**, concn., by electro-deposition on carbon electrodes, 3B48
- detection, reaction for, 5B21
- detmn., by a.a.s., effect of Cr in, 3B43
- laser-enhanced-ionisation spectrom., 3J86
- potentiom., 1B52
- in apatite or phosphogypsum, 1B54
- in biol. materials, by XRF, 1F4
- comparison of atomic-spectrosc. methods for, 1D29
- emission spectrom., standards for use in, 2D34
- in brine, by a.e.s., 4B152
- in silicates, by XRF, 4B110
- spectrogr., 1B107

Strontium, determination—continued

- in water, by PIXE, 1H46
- of ⁹⁰Sr, by n.a.s., 3B49
- in grasses or legumes, sample preparation for, 1G2
- in sodium coolant, β -spectrom., 5B33
- extraction of ⁹⁰Sr from milk, with dicarbollide of cobalt, 6F35
- ion-exchange study of, 4B6
- sepn. from alkali and other alkaline-earth metals, by h.p.l.c., 4B29
- from Ba, ion-exchange chrom., 2B37
- from Mg, by ion exchange, 3J42
- from other elements, ion chrom., 1B16
- of ⁹⁰Sr from other fission-product elements, liquid chrom., 6B22
- from ⁹⁰Y, by ion exchange, 4J53
- solvent extraction of, with dibenzo-18-crown-6 and sulphonphthalein dyes, 3B7, 3B25
- with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - trioctyl-phosphine oxide, 1H45
- Strontium, reagent for**, Na₂SO₄, 5B21
- Strophanthin acetate**, detection, by t.l.c., and detmn., by g.l.c., 5E16
- Strophanthin-K**, detmn., by r.i.a., preparation of antiserum for, 3D61
- Struvite**, i.r. spectrum of, 1D22
- Strychnine**, detmn., by g.c., concn.-dependent behaviour in, 2E3
- Styrene**, detmn. in air from polystyrene-production plant, by g.l.c., 3H37
- of metabolites of, in urine, by h.p.l.c., 3D135, 6D132
- monitoring of, comparison of passive dosimeters and charcoal tubes for, 2A1C
- , **α -methyl-**, detmn. in air from polystyrene-production plant, by g.l.c., 3H37
- , **octachloro-**, detmn. in biol. materials, by g.c., 1D103
- Substance P**, detmn., by r.i.a., comparison of sepn. methods used in, 3D228
- Succinic acid**, detection in wine, by isotachopheresis, 6F68
- detmn. in γ -butyrolactone, polarogr., 6C22
- in lactic acid-fermented vegetables, by h.p.l.c., 5F51
- in sugar-refinery products, by g.l.c. of butyl ester, 4F21
- **diethyl ester**, detmn. in water, by sorbent-tube pre-concn. - g.c., 2H79
- Succinimide, N-amino-3-bromophenyl-**, see *Pyrolidine-2,5-dione, 2-amino-3-(3-bromophenyl)-*
- , **methyl-**, identn. as decomposition product of 1-methylpyrrolidinone, by g.c. - m.s., 3C66
- Succinylsulphathiazole**, detmn. in pharmaceutical preparations, spectrogr., 1E11
- Sucrose**, detmn. in antibiotic fermentation mixtures, by t.l.c., 6E24
- in beer or wort, by h.p.l.c., 4F57
- in chicory root, by h.p.l.c., 3F44
- in foods or plants, by h.p.l.c., 3F6
- in fruit, by h.p.l.c., 1F33
- in grape must, by g.l.c. of TMS deriv., 2F57
- in sugar-factory products, automated, 5F21
- fast-atom-bombardment m.s. study of, 3C26
- identn. in heroin powder, by resorcinol reaction, 1E22
- identn. and detmn. in olives, paper chrom. - spectroph., 4F52
- m.s. study of TMS ether of, 2D109
- secondary-ion m.s. study of, 3D13
- sepn. from galactose and lactose, by h.p.l.c., 5F47
- **esters**, detmn. of alkali-metal soaps in, titrim., 6F70
- **mono-3-methylvalerate**, m.s. study of, and of its TMS ether, 2D109
- Suet**, detection in butter, by g.l.c. analysis of constituent fatty acids, 1F30
- Sufentanil**, detmn., by r.i.a., 1D68
- Sugar (commercial)**, analysis, instrumentation for, 4F1
- detmn. of dextran in, spectroph., 1F14
- of org. acids in products of refining of, by g.l.c. of butyl esters, 4F21
- of SO₂ in, by g.l.c., 4F22
- of ultramarine and other dyes in beet, by t.l.c., 3F12
- Sugar beet**, assay of nitrate reductase in leaves of, *in vivo*, 2D280
- detmn. of insect attractants in leaves or roots of, by g.l.c., 6G39
- identn. and detmn. of dinitrophenol pesticides in, gel chrom. - g.l.c. of methyl ethers, 3G40
- Sugar juices**, analysis, automated, 5F21
- detmn. of dextran in, spectroph., 1F14
- of total fermentable sugars in, enzymic - spectroph., 2F16
- Sugillite**, detmn. of Li in, by proton activation, 3B22
- Sulconazole nitrate**, detmn. in pharmaceutical preparations, by automated h.p.l.c., 3E4
- Sulfamerazine, N⁴-trideuteroacetyl-**, detmn. in blood plasma or urine, with its metabolites, by h.p.l.c. - m.s., 2D96
- Sulfamonomethoxine**, detmn. in chicken tissues, by h.p.l.c., 4D117
- Sulfapyridine**, detmn. in saliva, by h.p.l.c. with post-column derivatisation with fluorescamine, 5D71
- Sulfaquinoxaline**, detmn. in chicken tissues, by h.p.l.c., 4D117
- in rodenticide baits, by h.p.l.c., 2G21
- Sulindac**, sepn. from related compounds, by h.p.l.c., 5E29
- Sulphacetamide sodium**, detmn., spectroph., 6E56
- Sulphacyl sodium**, see *Sulphacetamide sodium*
- Sulphadimethoxine**, detmn. in chicken tissues, by h.p.l.c., 4D117
- in pharmaceutical preparations, indirect polarogr., 2E55
- Sulphadimidine**, detmn., spectroph., 4E70
- in pharmaceutical preparations, indirect polarogr., 2E55
- Sulphafurazole**, detmn. in pharmaceutical preparations, indirect polarogr., 2E55

- Sulphaguanidine**, detmn., spectroph., 4E70
in pharmaceutical preparations, indirect polarogr., 2E55
- Sulphamate sulphydrolase**, see under *Enzymes, specific*
- Sulphamethoxazole**, detmn. in biol. fluids, with its metabolite, by h.p.l.c., 6D115
in presence of trimethoprim *in vitro* and *in vivo*, 6E57
- Sulphamethoxypyridazine**, detmn. in pharmaceutical preparations, indirect polarogr., 2E55
- Sulphamic acid esters**, sepn. of aliphatic, ion chrom., 1C51
- Sulphapyridine**, detmn., by a.c. oscillopolarogr. titration, 1E69
in blood plasma, with its metabolite, by h.p.l.c., 6D116
- Sulphasalazine**, detmn. of metabolites of, in blood plasma, by h.p.l.c., 6D116
- Sulphate**, detmn., by flow-injection - photom. method, 1B133
by g.c. of t-butyltrimethylsilyl deriv., 3B14
potentiom., with F⁻-selective electrode, 3B113
spectroph., 4D35
in acid rain, ion chrom., 1H56
in acidic precipitation, by ion exchange - conductom., 4H37
in aq. NaOH medium, ion chrom., 5B2
in black liquor, ion chrom., 2C103
potentiom., with Pb²⁺-selective electrode, 6C75
in magnesium oxide, potentiom., 6B49
in presence of other anions, by g.l.c. of t-butyltrimethylsilyl deriv. - m.s., 2B15
ion chrom., 1H55
on dynamically coated columns, 6B20
without suppression, 6B19
of other sulphur anions, by h.p.l.c., 6B125
in soil, ion chrom., 6G14
in soln. containing lanthanoids, titrim., 4B79
in water, automated ion chrom., 5H83
by thermal decomposition - coulom., 5H74
ion-exchange pptn. chrom., 3H65
potentiom., with Pb²⁺-selective electrode, 3H66
spectroph., 2H66
of volatile, in air-borne dust, by thermal analysis with flame-photom. detection, 4H16
sepn. from other anions, high-performance ion chrom., 5B3
from SO₃²⁻ and S₂O₃²⁻, ion chrom., 1B134
- Sulphates**, detmn. of S isotopes in, SO₂ extraction for, 3B112
- Sulphathiazole**, detmn., by a.c. oscillopolarogr. titration, 1E69
spectroph., 1E11
- Sulphide**, detmn., by flow-injection - amperom. method, 6J171
ion chrom., 1B19
potentiom., ion-selective electrode for, 5B125
radiom., 2A10
stripping potentiom., automated, review, 4J141
in black liquor, ion chrom., 2C103
in presence of S₂O₄²⁻, SO₃²⁻ and S₂O₃²⁻, titrim., 6B124
of other sulphur anions, by h.p.l.c., 6B125
in sediments or sewage sludge, iodim. or potentiom., 5H99
in water, field electrode method for, 2H65
of bacterially produced, potentiom., with ion-selective electrode, 3D44
- Sulphides**, see also *Disulphides; Minerals, ores and rocks, sulphide*
analysis of inclusions in steel, review, 4B184
- , **organic**, see also *Polysulphides*
characterisation, by photo-oxidation - m.s., 5H31
identn. in gasoline, by g.c. - m.s., 3C78
- , —, **dibenzyl**, detmn., stripping voltamm., 3C16
- , —, **diethyl**, sampling and g.c. detmn. of, in air, 1H33
- , —, **dimethyl**, detmn. in aq. soln., by g.c., 4H75
in beer, by g.l.c., 2F55, 2F56
by head-space g.c., 2F51
- , —, **2,4-dinitrophenyl, derivatives**, sepn. and detmn., by h.p.l.c., 2C53
- Sulphinic acid esters**, sepn. of aromatic, ion chrom., 1C51
- Sulphinpyrazone**, detmn. in blood plasma, by h.p.l.c., 1D98
- Sulphite**, detmn., by flow-injection - chemiluminescence method, 4B136
by flow-injection - potentiom. method, with HgCl₂ - HgS electrode, 5B126
radiom., 2A10
titrim., with bromamine N, 4A16
in black liquor, ion chrom., 2C103
in presence of S₂O₄²⁻, S²⁻ and S₂O₃²⁻, titrim., 6B124
of other anions, by g.l.c. of t-butyltrimethylsilyl deriv. - m.s., 2B15
of other sulphur anions, by h.p.l.c., 6B125
sepn. from SO₃²⁻ and S₂O₃²⁻, ion chrom., 1B134
- Sulphite oxidase**, see under *Enzymes, specific*
- Sulphite reductase**, see under *Enzymes, specific*
- Sulphiduronate sulphydrolase**, see under *Enzymes, specific*
- Sulphonamides**, detmn. in eggs, meat or milk, by h.p.l.c., 5F42
in pharmaceutical preparations, indirect polarogr., 2E55
identn. and detmn. in biol. tissues or blood serum, by h.p.l.c. and high-performance t.l.c., 2D95
sepn. and identn. in pharmaceutical preparations, by t.l.c., 1E54
- Sulphonates**, detmn., by spectroph. titration, 2C90
- Sulphones, bis-(4-aminophenyl)**, detmn. in graphite - epoxy-resin composites, by h.p.l.c. or i.r. spectroph., 2C123
identn. and detmn. of impurities in, by g.l.c. and t.l.c., 5C41
- , **bis(hydroxyphenyl)**, analysis of isomers of, by h.p.l.c., 2C52
- Sulphonic acids**, detmn., by titration of S-benzylthiuronate deriv., 4C3
- **esters**, sepn., ion chrom., 1C51
- Sulphonic acids, aromatic**, detmn. in sulphuric acid wastes, spectroph., 3H101
- Sulphonium compounds, alkyl-**, sepn., ion chrom., 1C51
- Sulphur**, see also *Thiol-sulphur; Thiosulphate-sulphur*
detmn., BSI reduction - titrim. method for, 1B129
by deuterium activation, 1B132
emission spectrom., 2B18
non-aq. conductom., 2B122
with electron micro-probe, 1J99
in air-borne dust, automated system for, 3H17
with laser micro-probe mass analyser, 3H12
in aluminium alloys, by n.a.a., 6B61
in aluminium fluoride, by XRF, 6B62
in biol. materials, emission spectrom., standards for use in, 2D34
in coal or oil shale, by O-bomb combustion - ion chrom., 2B167
in cosmetics, by oxidation - ion chrom., 4C68
in ferrous materials, by isotope dilution - spark-source m.s., 2B150
in gas oil reference materials, by combustion techniques, by XRF and emission spectrom., 5C56
in iodomercuric sulphides, spectroph., 6B58
in iron, spectroph., 6B154
in metals or rocks, by isotope dilution - m.s., 4B134
in milk powder, by PIXE, 6F34
in minerals, ores or rocks, spectroph., 3B110
in org. compounds, see under *Organic elementary analysis*
in petroleum or petroleum products, by XRF, 3C81
comparison of methods for, 2C80
in plants, by XRF, 1G19
in silicates, by XRF, 2B91
in steel, emission spectrom., 4B169
spectroph., 6B154
of aerosol, air-borne photom. detector for, 6H15
in rain, air-borne instrumentation for, 3H42
of As, Se and Te in, by XRF, 6B127
of chemical forms of ³⁵S in reactor-irradiated aluminium chloride - iron(III) chloride, 3B115
of components and contents of, in gaseous or liquid samples, by g.c., 1B130
of isotopes of, by m.s., 1B131
in sulphates, SO₂ extraction for, 3B112
of speciation of, in coal or fly ash, by XRF, 6B187
of ³⁵S in small segments of maize, by liquid scintillation counting, 5G3
isotopic analysis, preparation of SO₂ for, 5B127
- , **elementary**, detmn. in presence of S compounds, indirect flame emission spectrom., 6B126
in synthetic fibres, components of systematic error in iodim. method for, 1C106
- Sulphur compounds**, detmn., mol.-emission-cavity spectrom., shape of calibration curve in, 4C24
spectroph., 4E70
in air, BSI sampling equipment for, 2H19
by chemiluminescence method, 3H35
by reaction g.c., 5H30
in brewing materials, by g.c., review, 6F58
in hydrocarbon fractions, by g.c. with use of flame-photom. detector, 1C84
in presence of elementary S, indirect flame emission spectrom., 6B126
in water, spectroph., 1H68
of heterocyclic, in crude-oil fractions, liquid chrom. - m.s., 2C65
of org., by reductive decomposition - iodim., 2E31
in air or water, by head-space g.c., 6H3
identn. in gasoline, by g.c. - m.s., 3C78, 6A7C
sampling and g.c. detmn. of org., in air, 1H33
- Sulphur dioxide**, detection in air or water, colour reaction for, 1H3
detmn., by a.f.s., 3B111
in air, air-borne photom. detector for, 6H15
apparatus for continuous, 2H17
BSI spectroph. method for, 2H20
calibration standards for, 6H14
evaluation of analysers for, 5H17
radiom., 4H15
spectroph., ethanolamine as absorbing reagent for, 3H19
in food head-spaces, by g.c., 5F67
in foods, by steam-distillation - iodim., 2F13
in gas streams in coal-fired power plants, 2H21
in rain, air-borne instrumentation for, 3H42
in small gas vol., by m.s., 2J138
in sugar, by g.l.c., 4F22
in volcanic gases, 6H8
of maximum emission concn. of, in air, review, 1H23
personal sampler for, 5H9
- Sulphuric acid**, detmn. in air, system for, 1H10
in air-borne dust, by thermal analysis with flame-photom. detection, 4H16
in ammonium sulphate, spectroph., 3B114
in industrial H₂SO₄ - HNO₃ mixtures, potentiom., with Pb²⁺-selective electrode, 1J192

Sulphuric acid, determination—*continued*

- of aromatic hydrocarbons and corresponding sulphonic acids in waste, spectroph., 3H101
- of Se in technical-grade, by a.a.s., hydride-generation method unsuitable for, 1B136
- use of Tris as standard substance for standardisation of soln. of, 1B115
- **esters**, alkyl, detmn., by spectroph. titration, 2C90
- sepn., ion chrom., 1C51
- , **dodecyl, sodium salt**, detmn., potentiom., with Ca^{2+} -selective electrode, 4A18
- , **dimethyl**, detmn. in air, 2A1C
- Sulphuryl fluoride**, detmn. in air, ion chrom., 5H18
- Sulphydryl groups**, see *Mercapto-groups*
- Sulpride**, detmn. in pituitary tissue, by h.p.l.c. - m.s., 2D87
- Sulpristone**, detmn., by r.i.a., 2D73
- in blood serum, by r.i.a., 4D67
- Sunflower seeds**, detmn. of chlorogenic acid in, by h.p.l.c., 4G3
- Sunflower-seed meal**, detmn. of residual hexane in, by head-space g.l.c., 2G6
- Sunflower-seed oil**, detection of adulteration of, by g.c. of fatty acid methyl esters, 5F71
- by g.l.c., 2F63
- of soya-bean oil in, by g.l.c. detmn. of fatty acid methyl esters, 1F54
- detmn. of tocopherols in, by h.p.l.c., 3F54
- gel-chrom. and t.l.c. studies of heated, 3F55
- sepn. of triglycerides in, liquid chrom., 4F71
- Superconducting materials**, detmn. of Ge and Nb in thin films, spectroph., 5B192
- Superoxide dismutase**, see under *Enzymes, specific*
- Suppositories**, detmn. of active component of, by thermal methods, 1E7
- Surfaces**, analysis, applications of outer-shell excitation during ion-bombardment methods for, review, 1J177
- Auger-electron spectrom., review, 1J146
- by fast-atom-bombardment m.s., 3J118
- by m.s., review, 1J150
- emission spectrom., 3J81
- report of symposium on industrial applications of, 3A1
- sample preparation for, review, 5J136
- standards for, 1A33B
- of coated metal, by secondary-ion m.s., 3B4
- characterisation, combined electrostatic objective and emission lenses for micro-, 6A7C
- review, 4A2
- review of methods for, and of their applications, 4B2
- of metal, glow-discharge emission spectrom., 3B3
- detection and detmn. of org. pollutants on, by luminescence, fluorescence and room-temp. phosphorescence methods, review, 6H2
- Surfactants**, analysis, review, 4A2
- of mixtures of, by field-desorption - collisionally-activated-dissociation m.s., 3C92
- review, 1C89
- of raw materials for cosmetics, review, 6C71
- detmn. of Sb or As in, by alkali fusion - iodim., 6C6
- of micelles in soln. of, by light-scattering method, 6C64
- sepn., ion chrom., 1H56
- sepn. and detmn., by t.l.c. - u.v. densitom., 2C87
- , **anionic**, analysis, by fast-atom bombardment - triple-analyser m.s., 3D224
- concn. from water, by evaporation at reduced pressure, 6H49
- detection on undyed cotton, fluorim., 6C76
- detmn., by two-phase titration, 1C90
- in presence of cationic surfactants, by two-phase titration, 5C69, 6C68
- in water, by indirect a.a.s., 6H56
- spectroph., 2H86
- films of, as standards for laser micro-probe mass analysis, 1A1C
- identn., paper chrom., 3C91
- , **cationic**, analysis of non-u.v.-absorbing dialkyl-type, by h.p.l.c., 6C67
- detmn., potentiom., 6E7
- spectroph., 6C65
- in presence of anionic surfactants, by two-phase titration, 6C68
- identn., paper chrom., 3C91
- sepn. of imidazoline-type, by h.p.l.c., 6C66
- sepn., identn. and detmn., by pyrolysis - g.c., 2C88
- structural analysis of imidazolium, by g.c. - t.l.c. - n.m.r. - i.r. spectrom., 4C64
- , **non-ionic**, analysis of alkoxylate, in water or waste water, 2A2C
- detection on undyed cotton, fluorim., 6C76
- detmn., by h.p.l.c., review, 5C66
- spectroph., 2C89
- in petroleum-industry water, turbidim., 3C69
- in waste water, by a.a.s., 6H74
- of number of oxyethylene units in, by V^{V} oxidation - potentiom., 3C93
- of polyoxyethylene, in water, spectroph., 6H57
- electrochem. study of biodegradation of, 5C68
- selective sorbent for, 5C67
- Suttilins**, analysis, high-performance size-exclusion chrom., 4E34
- Sweat**, detmn. of As in, oscillopolarogr., 1B121
- of 2,4-D in, by g.l.c., 6G24

Sweat, determination—*continued*

- of elements in, by PIXE, 3D47
 - of Hg in, by a.a.s., 3D38
 - Sweeteners**, analysis of artificial, by h.p.l.c., 4F3
 - particle size analysis, by laser-light scattering, 4F2
 - Swertia spp.**, sepn., identn. and detmn. of secoiridoid glucosides in, by h.p.l.c. - field-desorption m.s., 4E19
 - Sydnocarb**, identn. in presence of other central nervous system stimulants, liquid chrom., 4E46
 - Sydnophen**, identn. in presence of other central nervous system stimulants, liquid chrom., 4E46
 - Syngaldehyde**, detmn. in pulp-mill effluent, by h.p.l.c., 3H102
 - Syringic acid**, identn. in plants, by h.p.l.c., 5G4
 - Syrups**, see also *Maple syrup*
 - detmn. of dextran in, spectroph., 1F14
- T**
- 2,4,5-T**, detection in urine, by g.l.c. of methyl ester, avoidance of *N*-methylsaccharin interference in, 1D107
 - detmn. in soil, by g.l.c., 2G9
 - T-2 toxin**, detection in cereals, by t.l.c., 3G5
 - in cereals or feeding-stuffs, by g.l.c. of TMS deriv., 5G10
 - TATB**, see *Benzene-1,3,5-triamine, 2,4,6-trinitro-*
 - TBQH**, see *Quinol, t-butyl-*
 - TBZ**, see *Thiabendazole*
 - TDE**, detmn. in urine, by h.p.l.c. - n.a.a., 4D136
 - identn. in fish tissues, liquid chrom. - g.c., 2F21
 - TDI**, see *Toluene, di-isocyanato-*
 - INT**, see *Toluene, 2,4,6-trinitro-*
 - Taco shells**, detmn. of *D*-amino-acids in, by g.l.c. of *N*-pentafluoropropionyl deriv. of isopropyl esters, 1F7
 - Tacrine**, detmn. in blood plasma or brain tissue, by h.p.l.c., 6D97
 - Tagetes patula**, sepn., identn. and detmn. of thiophene derivatives in, by h.p.l.c., 4D149
 - Talc**, detmn. of heavy metals in, voltamm., 3E1
 - Tamoxifen**, detmn. in blood plasma, by g.c. - m.s., review, 1D97
 - in blood serum, with its metabolites, by h.p.l.c., 3D121
 - Tangeretin**, sepn. from other citrus flavones, by h.p.l.c., 5F12
 - Tannins**, detection and detmn. in plants, review, 2D130
 - detmn., spectroph., 1D218
 - extraction and detmn. in soil, 1G16
 - Tantalum**, analysis of surface layer of oxide films on, X-ray photoelectron spectrom., 4B12
 - detmn., potentiom., with TaF_6^- -selective electrode, 2B120
 - in ferriionibium, by a.a.s., 6B156
 - spectroph., 2B149
 - in grass, by n.a.a., 3D20
 - in nickel alloys, emission spectrom., 2B157
 - in niobium, potentiom., with TaF_6^- -selective electrode, 4B133
 - in plants, by XRF, 3G19
 - of W in, by proton activation, 6B123
 - solvent extraction of, with 4-methoxy-*N*-m-tolylbenzohydroxamic acid, 2B119
 - Tantrum**, reagent for, crystal violet - F^- , 2B149
 - Tar**, analysis of alkanes in, by g.c., 1H76
 - Taraxacum officinale**, detmn. of inulin in roots of, paper chrom. - spectroph., 1E47
 - Tartaric acid**, detmn. in grape must, by g.l.c. of TMS deriv., 2F57
 - in heroin powder, by use of commercial test paper, 1E22
 - in lactic acid-fermented vegetables, by h.p.l.c., 5F51
 - in wine, by isotachopheresis, 6F68
 - Tartrate**, sepn. from other anions, by isotachopheresis, 3J45
 - Taurine**, detmn. in blood plasma, effect of sampling site in, 3D209
 - in feeding-stuffs or foods, with amino-acid analyser, 1F27
 - Tea**, detmn. of caffeine in, by h.p.l.c., 5F60
 - of caffeine and theobromine in, by h.p.l.c., 6F52
 - of element speciation in, review of sepn. procedures used for, 6F2
 - of Ni speciation in, 1F3
 - of nitrate-N in, spectroph., 2F39
 - of purine alkaloids in, by h.p.l.c., 3F43
 - sepn. and detmn. of organometallic complexes in, by selective sorption - differential pulse polarogr., 2F38
 - standardisation of multi-component medicinal, colorim., 1E49
 - Tears**, assay of lysozyme in, by immunoturbidim. and kinetic bacteriolytic methods, 6D283
 - Tebuthiuron**, t.l.c. study of, 6G28
 - Technetium**, analysis of $^{99\text{m}}\text{Tc}$ complexes, by t.l.c. or paper chrom., 1E75
 - detection of $^{99\text{m}}\text{Tc}$ in h.p.l.c. effluents, 1E77
 - Teeth**, assay of kininases in pulp of, fluorim., 3D289
 - detmn. of elements in, using three-electrode plasmatron, 6H1
 - Tellurate**, sepn. from TeO_3^{2-} , ion chrom., 3C40
 - Telluride**, diethyl, detmn. in air, polarogr., 1H35
 - Tellurite**, sepn. from TeO_3^{2-} , ion chrom., 3C40
 - Tellurium**, detection of $^{127\text{m}}\text{Te}$ and $^{129\text{m}}\text{Te}$ in floc samples, 3H43
 - detmn., a.c. polarogr., 1B108
 - by a.a.s., 2B123, 3B119
 - masking agents for noble metals ineffective in, 3B107
 - sample-introduction system for, 5J109

- Tellurium**, determination—*continued*
 development of methods for, review, 6A10
 polarogr., 5B18
 spectroph., 4B137
 with extraction into molten naphthalene, 4B138
 in antimony and phosphorus trichlorides, 6B118
 in lead, emission spectrum., 2B100
 in nickel alloys, by a.a.s., 2J105, 5B157
 in presence of Eu. spectroph., 3B70
 in sulphur, by XRF, 6B127
 in urine, emission spectrum., 2D37
 in waste water, by selective flotation - photom., 5H100
 in water, polarogr., with pre-concn. on mercapto-cotton fibre, 5H76
 of different chemical forms of, in water, by a.a.s., with sepn. and concn. on 'thiol-cotton' fibre, 4H61
 of distribution of, in cadmium mercury telluride, by XRF, 5B190
 in gallium arsenide films, by cathodoluminescence method, 1B207
 solvent extraction of, with aq. systems from organometallic - halide extracts, 1B14
 with quinoline-8-carbodithioic acid, 3A14
- Tellurium**, reagents for, butylrhodamine, 5H100
 hexadecyltrimethylammonium ion - I⁻, 4B137
 pyrrolidine-1-carbodithioic acid K salt, 4B138
 SnCl₂, 3B70
- Temazepam**, sepn. from related compounds, by h.p.l.c., 1D71
- Temequin**, detmn., colour reactions for, 4E54
- Tenuazonic acid**, detection in bread or cereals, by t.l.c., 2F19
- Terbium**, detection, by synchrotron-radiation XRF, 2J87
 detmn., polarogr., 4B85
 in presence of Sm, spectroph. - titrim., 4B80
 in yttrium oxide, emission spectrum., 2B62
 sepn. from Gd, Lu, Tm and Yb, by g.s.c. of chloride or chloride - aluminium chloride complexes, 3B72
- Terbutaline**, detmn. in blood plasma, automated multi-dimensional liquid chrom., 1D85
 by h.p.l.c., 3D98
- **sulphate**, detmn., by flow-injection - spectroph. method, 1E66
 in pharmaceutical preparations, spectroph., 1E64, 1E65, 4E50, 4E51, 4E52
- Terephthalic acid**, detmn. in raw materials for poly(ethylene terephthalate) production, by g.l.c. of methyl ester, 5C83
- **dimethyl ester**, analysis of products of ester exchange between ethanediol and, liquid chrom., 1C48
 of residue from distillation of, by g.c. - m.s., 3C52
- Terephthalic acid, dithio**, detmn., spectroph., 1C17
- Terpenes**, analysis of mixtures of, by g.l.c. - FT i.r. spectrom., 5C47
 detmn. of hydrogenation products of acetylenic alcohols, by g.c., 3C96
 g.l.c. study of saturated, 5C49
 identn., by g.l.c. measurement of ΔH and ΔS , 5C48
 identn. and detmn. in plants, by g.c. - m.s., 6D156
 selective stripper for, 6H23
 sepn., by g.c., 4J66
 from lemon oil, liquid chrom., 4J30
 sepn. and identn. of chlorinated, in camphenchlor, by g.l.c. - m.s. (or ¹H n.m.r.), 5G34
- , **di**, ¹³C n.m.r. studies of alkaloids, review, 1E31
- , **sesqui**, sepn. of plant-derived alcohols, liquid chrom., 4J31
- , **mono**, identn., by g.l.c. measurement of ΔH and ΔS , 5C48
- Terphenyl derivatives, chloro**, h.p.l.c. study of, 1J54
- Terpineol**, detmn. in presence of other terpenoid alcohols, by h.p.l.c., 4C67
- Testicular tissue**, detmn. of Δ^4 -3-oxosteroids in perfusate of, by h.p.l.c., 2D180
- Testosterone**, detmn., by r.i.a., interference by danazol and its metabolites in, 2D181
 in blood plasma, accuracy and precision of results in, 4D172
 by immunoabsorption - g.c. - m.s., 2D173
 by r.i.a., use of reference plasma samples in, 2D11
 liquid chrom. - r.i.a., 1D140
 in testicular perfusate, by h.p.l.c., 2D180
 in urine, by h.p.l.c., automated, 4D178
 of free, by equilibrium dialysis and column adsorption methods, 6A4C
 identn. and detmn. in saliva, by g.c. of TMS ether of pentafluorobenzoyloxime - chemical-ionisation m.s., 2D172
- , **5 α -dihydro**, detmn. in blood plasma, liquid chrom. - r.i.a., 1D140
- Tetraborate**, detmn. in presence of HBO₃, iodim., 5B64
- Tetracaine**, see *Amethocaine*
- Tetrachlorothallate**, detmn., potentiom., ion-selective electrode for, 3J137
- Tetrachlorvinphos**, detmn. in fruit or vegetables, by t.l.c., 4G21
- Tetracycline**, detection, by luminescence method, 4E22
 detmn., cyclic voltamm., at interface of two immiscible soln., 5E23
 in blood or milk, by agar-diffusion test, 6F41
 in pharmaceutical preparations, by t.l.c. - spectroph., 4E23
- Tetracyclines**, sepn. and detmn., by t.l.c. - densitom., 5E22
- Tetrafluoroborate**, detmn., ion-selective electrode for, 4J131
- Tetralin-5,6-diol, 2-(dipropylamino)**, detmn. in blood plasma or brain tissue, by h.p.l.c., 6D129
- Tetralin-6,7-diol, 2-(dipropylamino)**, detmn. in blood plasma or brain tissue, by h.p.l.c., 6D129
- Tetrathionate**, detmn. in presence of other sulphur anions, by h.p.l.c., 6B125
- Tetrazole, 5-(trichloromethyl)**, explosion hazard in preparation of, 3A32
- Tetrodotoxin**, detection in fish tissues, continuous analyser for, 5F39
 in shellfish, by h.p.l.c., 3F28
 detmn. in fish tissues, by isotachopheresis, 6F31
- Tetryl**, see *Aniline, N-methyl-N,2,4,6-tetranitro*
- Textiles**, detmn. of degree of mineralisation of, after washing, by scintillation technique, 4C76
 of fenvalerate on wool, by g.l.c., 5C78
 of F in fluorochemical-treated, by n.a.a., 1C103
 of insect-proofing agents in, or in liquors therefrom, by h.p.l.c., 3C103
 identn. of fibres of, thermogravim., 1C100
- Thallium**, concn., on polyester-based polyurethane foam, 2B11
 from water, on cellulose, 5H51
 detection, by forward scattering in transverse magnetic field, 2J107
 colour reaction for, 3A12
 pptn. reaction for, 6B11
 detmn., anodic-stripping voltamm., effects of surfactants in, 2B13
 by a.a.s., with atomisation under pressure, 1B75
 by isotope dilution, 6B64
 emission spectrum., reduction of interferences in, 3J84
 polarogr., 5B18
 potentiom., ion-selective electrodes for, 2J170, 3J136, 3J137
 with hydantoin deriv., in non-aq. media, 1A16
 radiochem., 2B60
 stripping chronopotentiom., 3J152
 stripping potentiom., automated, review, 4J141
 in foods, by a.a.s., 4F6
 in lead, emission spectrum., 2B100
 in liquid samples, spectroph., 2J108
 in minerals, ores or rocks, by a.a.s., 6B66
 in nickel alloys, by a.a.s., 2J105, 5B157
 in plants, by a.a.s., 6D17
 in presence of Pb, inverse voltamm., 2B61
 of other elements, by n.a.a., 5B8
 gravim., 6B16
 in urine, emission spectrum., 2D36
 in waste water, emission spectrum., 1H88
 in water in presence of humic acids, anodic-stripping voltamm., 1H53
 of isotopes of, in meteorites or rocks, by electro-deposition - surface-ionisation m.s., 4B69
 of Tl^I and Tl^{III}, by reverse isotope dilution, 6B65
 sepn. from other elements, by ion exchange, 3B62
 of Tl^I from Tl^{III}, by solvent extraction, 5B73
 solvent extraction of, with aq. systems from organometallic - halide extracts, 1B14
 with dibenzo-18-crown-6 and sulphonphthalein dyes, 3B25
 with dibromodibenzo-18-crown-6 and dye anions, 3B8
 with quinoline-8-carbodithioic acid, 3A14
 with tetrachlorodithionates, 1B17
- Thallium**, reagents for, K₂HgI₄, 6B11
 K₂CS₃, 6B16
 4-(1,2,4-triazolo-3-ylazo)thymol, 3A12
- Thallium complexes**, with bromobenzothiazolylazo-dyes, 4A9
- Thebaine**, detmn. in ethylmorphine hydrochloride, by t.l.c., 2E7
 sepn. from other opium alkaloids, by h.p.l.c., 1E18, 2E6
- Thenyldiamine hydrochloride**, detmn. in feeding-stuffs, urine or waste water, by h.p.l.c., 4G12
- Theobromine**, detmn. in beverages, by h.p.l.c., 6F52
 in biol. fluids, by h.p.l.c., 5D29
 in coffee and other beverages, by h.p.l.c., 3F43
 in presence of bendazol, papaverine and theobromine, by h.p.l.c., 1E8
- Theophylline**, detection in blood serum, solid-phase reagent strips for, 6D49
 detmn., by enzyme immunoassay, using antibody - alginate coupling procedure, 1D55
 using automated controlled-dispersion method, 2J11
 by EMIT assay, logit - log. calibration curves in, 1D52
 by nephelom. immunoassay, 5D32
 non-aq. titrim., 5E27
 in biol. fluids, by h.p.l.c., 5D29
 in blood, saliva or urine, by h.p.l.c. or enzyme immunoassay, 4D56
 in blood plasma, by enzyme immunoassay, sampling methods for, 5D30
 by g.c., 6A5C
 by h.p.l.c., automated, 3D60
 by t.l.c. - densitom., 4D58
 in blood plasma or urine, with its metabolites, by g.l.c. of propyl deriv. - m.s., 6D59
 in blood serum, by fluoro-immunoassay with centrifugal analyser, 6D71
 by h.p.l.c., 4D57
 by h.p.l.c. or by radioactivity-free immunoassay, review, 5D33
 by h.p.l.c. or by rate nephelom. inhibition immunoassay, 5D31
 in coffee and other beverages, by h.p.l.c., 3F43
 in pharmaceutical preparations, by h.p.l.c., 5E10
 in suppositories, by thermal methods, 1E7

- Thermal analysis**, application of continuous selective H_2O detector in, 1B190
report of conference on, 2A4
—, **differential**, applications of, in pharmaceutical research and development, review, 2E5
applications of pyroelectric detectors in, 2J187
coupled with m.s. for studies of metal complexes, 3J153
—, **emanation**, 4J144B
—, **evolved-gas**, FT i.r., review, 4J8
—, **gravimetric**, thermom. calibration in, 4J143
Thermomicroscopy, of org. compounds, 2J154B
Thermospermine, sepn. from spermine, by t.l.c., 6D197
Thiabenzazole, detmn. in fruit, by g.l.c., by t.l.c., fluorim. or spectroph., 5G30
in marmalade, by h.p.l.c., 3F17
Thiadiazole derivatives, detmn. in lubricating oils, by h.p.l.c., 4C82
t.l.c. study of, 6G28
Thiamine, detmn., spectroph., 4E30
in cereals, meat or vegetables, by g.l.c., 6F9
in foods, by modified AOAC fluorim. method, 6F10
in pharmaceutical preparations, by h.p.l.c. with automatic continuous-flow sample preparation, 4E29
by t.l.c. - densitom., 3E28, 3E29
by t.l.c. - u.v. spectroph. or fluorim., 3E27
differential pulse polarogr., 3E30
in presence of its decomposition products and of sulphaguanidine, fluorim., 3D284
— **hydrochloride**, detmn., by reductive decomposition - iodim., 2E31
Thiazole derivatives, identn. in fried bacon, by g.c., g.c. - m.s. and i.r. spectrom., 3F24
Thiazole-4-carboxamide, 2- β -D-ribofuranosyl-, see **Tiazofurin**
Thiocyanate, detmn., potentiom., ion-selective electrode for, 6J142
with hydantoin deriv. in non-aq. media, 1A16
with ion-selective electrode, 6J169
spectroph., 4B107
with aromatic halosulphonamides, 5B94
in biol. fluids, suitable resins for collection in, 2D53
in protein soln., spectroph., 5D151
in silver-plating electrolytes, potentiom., with ion-selective electrode, 3B38
in urine, by h.p.l.c., 1D39
sepn. from other anions, high-performance ion chrom., 5B3
Thiodan, detmn. in plants, by g.c., 4G19
Thioguanine nucleotide, detmn. in erythrocytes, fluorim., 1D95
Thiols, see also **Alkanethiols**
characterisation, by photo-oxidation - m.s., 5H31
detection, by colour reaction on ion-exchange resin, 3C15
by h.p.l.c., 3D8
detmn., fluorim., 2C10
potentiom., 6E7
spectroph., 1C17, 5C7
titrim., 2C9
in coal gas or natural gas, potentiom., portable instrument for, 4C44
identn. in gasoline, by g.c. - m.s., 3C78
sepn., gel electroph., 5D4
sepn. and detmn., by h.p.l.c., derivatisation reagents for, 4A8
of 2,4-dinitrophenyl thioethers derived from, by h.p.l.c., 2C53
Thiol-sulphur, detmn. in light hydrocarbon products, BSI titrim. method for, 2C62
Thiopental, see **Thiopentone**
Thiopentone, detmn. in blood plasma, by h.p.l.c., 3D78
in blood serum, with its metabolite, by g.c., 4D85
Thiophene derivatives, identn. and detmn. of polycyclic, in crude oil, by g.c. - g.c. - m.s., 1C70
isolation from shale oil, argentation liquid chrom., 5C61
m.s. study of bis-annellated, 6C47
sepn., identn. and detmn. in *Tagetes patula*, by h.p.l.c., 4D149
—, **alkyl**, detmn. in air, by collection on active carbon - g.c. - m.s., 2H27
—, **S-oxides**, m.s. study of bis-annellated, 6C48
Thiopropazine mesylate, detmn., spectroph., 3E46
Thiosulphate, detmn., by kinetic - spectroph. method, 6C26
in black liquor, ion chrom., 2C103
in presence of $S_2O_4^{2-}$, S^{2-} and SO_3^{2-} , titrim., 6B124
of other sulphur anions, by h.p.l.c., 6B125
in urine, by h.p.l.c., 6D40
sepn. from SO_3^{2-} and SO_4^{2-} , ion chrom., 1B134
Thiosulphate-sulphur, detmn. in oxidised sulphur - alkali wastes, potentiom., 2H97
Thiuram, tetraethyl-, disulphide, detmn., by kinetic - spectroph. method, 1C9
—, **tetramethyl-, sulphide**, detmn., stripping voltamm., 3C16
Thorium, concn. from water, by co-pptn. with MnO_2 , 3H52
on reagent-loaded polyurethane foam, 3H53
detmn., anodic-stripping voltamm., 4B96
by electro-deposition - XRF, 4B89
by n.a.a., with pre-concn. by co-pptn., 1B10
by photo-fission delayed-neutron counting, 4B88
by XRF, 1B77, 3B74
complexom., 3B73, 5B83
spectroph., 4B87
Thorium, determination—continued
in coal or fuel oil, emission spectrom., with pre-concn. on poly-(dithiocarbamate) resin, 5B179
in LSI constituent materials, by secondary-ion m.s., 1B204
in minerals, ores or rocks, α -spectrom., 4B95
oscillolpolarogr., 2B70
in presence of Sc, amperom., 5B74
in silicates, by XRF, 4B110
in uranium, spectrogr., 6B75
in zircon, emission spectrom., 2B106
of ^{232}Th and ^{234}Th in water, interferences in radiochem. method for, 6H42
sepn. from Ce, by t.l.c., 6B3
from La, liquid chrom., 2B16
from other elements, by t.l.c., 1B23
from U, ion-exchange chrom., 3B79
of ^{234}Th from U, by ion exchange, 4J53
solvent extraction of, with crown ethers, 3B66
Thorium complex, with catechol violet and hexadecyltrimethylammonium ions, 1B70
Threonine, phospho-, detmn. in proteins, with automatic amino-acid analyser, 3D214
Thrombin, detmn., enzymic, 4D250
Thromboxanes, isolation, characterisation and detmn., by h.p.l.c., review, 2D148
sepn. of labelled and unlabelled, from other arachidonic acid metabolites and from each other, by h.p.l.c., 3D164
sepn. and detmn. in biol. fluids, by g.c. - chemical-ionisation m.s., 2D149
— **B₂**, detmn., by g.c. of t-butyltrimethylsilyl ether - m.s., 1D125
sepn. from related compounds, by t.l.c., 2D151
Thujones, identn. and detmn. of α - and β -, in plants, by g.c. - m.s., 6D156
Thulium, detmn. in presence of La or Nd, spectroph. - titrim., 4B80
in yttrium oxide, emission spectrom., 2B62
sepn. from Gd, Lu, Tb and Yb, by g.s.c. of chloride or chloride - aluminium chloride complexes, 3B72
solvent extraction of, with crown ethers, 3B66
Thymazoline, detmn. in presence of its decomposition product, by t.l.c. - spectroph., 3E53
Thymidine, detection, by h.p.l.c. - m.s., 6D260
—, **deoxy-**, detection in kidney-cell extracts, by h.p.l.c., 4D285
detmn. in presence of other nucleosides, liquid chrom., 2D272
Thymidine derivatives, sepn. and detmn., by h.p.l.c., 5D185
Thymine, sepn. of radiation-induced degradation products of, by t.l.c., 5D183
Thymol, detmn. in presence of carvacrol, by h.p.l.c. - electrochem., 4C41
of other terpenoid alcohols, by h.p.l.c., 4C67
—, **4-(1,2,4-triazol-3-ylazo)-**, as analytical reagent, 3A12
Thymus tissues, detmn. of sphingosine in, by h.p.l.c., 3D172
Thyroglobin, sepn. from other proteins, by h.p.l.c., 5D157
Thyroglobulin, detmn., by enzyme immunoassay, 4D253
Thyroid hormones, detmn. of free, collaborative study of assessment of normal values in, 6A4C
in blood serum, by symmetric dialysis, 6A4C
liquid chrom. - r.i.a., 6A4C
Thyroid-stimulating hormone, see **Thyrotrophin**
Thyronine, detmn. in presence of related compounds, by h.p.l.c., 3E36
—, **3,3'-di-iodo-**, detmn., by r.i.a., 1D179
in bile or blood plasma, by r.i.a., 3D217
—, **3,5-di-iodo-**, detmn. in bile or blood plasma, by r.i.a., 3D217
in presence of related compounds, by h.p.l.c., 3E36
—, **3',5'-di-iodo-**, detmn. in bile or blood plasma, by r.i.a., 3D217
—, **3,3',5'-tri-iodo-**, detmn., by flow-injection - chemiluminescence method, 2D9
by r.i.a., automated, 2D218
components and optimisation of, 3D14
effect of light in, 2D220
in bile or blood plasma, by r.i.a., 3D217
in blood serum, by enzyme immunoassay, 3D75
in leucocytes, by r.i.a., 2D219
in presence of related compounds, by h.p.l.c., 3E36
—, **3,3',5'-tri-iodo-**, detmn. in bile or blood plasma, by r.i.a., 3D217
in blood serum, by r.i.a., 2D221
Thyrotrophin, detmn., by enzyme immunoassay, 1D209
by r.i.a., automated, 2D218
comparison of external quality-assessment surveys for, 5D168
in blood-spot samples on filter-paper, by r.i.a., 4D261
effect of parenteral nutrition in, 2D252
immunoradiom., 1D207
significance of filter-paper quality in, 1D208
Thyroxine, detmn., by flow-injection - chemiluminescence method, 2D9
by r.i.a., 3D218
automated, 2D218
components and optimisation of, 3D14
test for drug interferences in r.i.a. kit method for, 2D23
in bile or blood plasma, by r.i.a., 3D217
in blood serum, by automated enzyme-inhibition immunoassay, 4D223
by chemiluminescence immunoassay, 4D222
by enzyme immunoassay, 3D75

Thyroxine, determination—*continued*

- in dextrothyroxine tablets, by t.l.c. - spectroph., 3E37
- in leucocytes, by r.i.a., 2D219
- in presence of related compounds, by h.p.l.c., 3E36
- of free, by kinetic method, 6A4C
- by r.i.a., 2D222, 6D218
- clinical evaluation of, 5D144
- interference by endogenous antibodies in, 3D219
- in blood, by r.i.a., interference in use of GammaCoat kit, for, 1D180
- in blood plasma, problems in use of kits for, 4D224
- in blood serum, 6A4C
- by r.i.a., effect of albumin concn. in, 2D224
- effects of albumin concn. and non-thyroidal illness in, 6D219
- evaluation of Amerlex Free T4 kit for, 2D223
- improved dialysis method for, 6D217
- of specific activity of L-[¹²⁵I]-, 5D145
- identn. and detmn. in human milk, by g.c. of *NO*-bis(trifluoroacetyl) methyl ester - m.s., 2D216
- Tiazofurin**, detmn. in blood serum, by t.l.c. - h.p.l.c., 6D125
- Timolol**, detmn. in presence of alprenolol, by h.p.l.c., 5J47
- pharmacokinetic studies of, by g.l.c. - selected-ion monitoring, 3D9
- Tin**, concn., by ion flotation, 4B14
- detection, by synchrotron-radiation XRF, 2J87
- reaction for, 5B21
- detmn., anodic-stripping voltamm., effects of surfactants in, 2B13
- by a.a.s., automated system for, 2H55
- comparison of methods for, 3B11
- suppression of Cl⁻ interference in, 4B15
- with stabilised-temp. platform furnace and Zeeman background correction, 6B99
- by extractive titration after conversion to elementary Sn, 5B99
- by XRF, 6B18
- coulom., 3B17
- emission spectrom., 2B18, 4J86
- using electrothermal carbon-cup vaporisation, 1J127
- polarogr., 1B110
- potentiom., with hydantoin deriv. in non-aq. media, 1A16
- spectroph., 3B94
- stripping potentiom., automated, review, 4J141
- in beer, by a.a.s., 6F62
- in biol. materials, emission spectrom., 2D33
- spectrogr., 5D12
- in copper alloys, by XRF, 6B38
- emission spectrom., arc excitation as source of error in, 4B42
- in electroplating soln., with AMICA automatic analyser, 6J17
- in foods, polarogr., 5F2
- in inorg. and organometallic compounds, review, 4H77
- in lead, by n.a.a., 6B103
- emission spectrom., 2B100
- in magnesium, spectrogr., 3B44
- in petroleum or petroleum products, by XRF, 2C76
- in presence of other elements, by n.a.a., 5B8
- in urine, emission spectrom., 2D37
- in Zircaloy, emission spectrom., 4B114
- of Sb and Bi in, differential pulse anodic-stripping voltamm., 5B117
- of Bi and Zn in, by a.a.s., 5B101
- of Cd and Pb in, by a.a.s., 5B102
- of Cu and Ag in, by a.a.s., 4B112
- of different chemical forms of, in waste water, by ion exchange - spectrogr., 5H102
- of distribution and speciation of, in biol. tissues, by n.a.a. - Mossbauer spectrom., 4D32
- of inorg., in presence of butyltin compounds, by isotope dilution, 6C30
- sepn. from other elements, by t.l.c., 1B23
- of inorg., from methyltin species, by Sephadex adsorption, 1H74
- solvent extraction of, with Alamine 336, 6B100
- with aq. systems from organometallic - halide extracts, 1B14
- with quinolin-8-ol or its 5,7-dichloro-deriv., 5B100
- , **butyl-**, detmn. in presence of other butyltin compounds and inorg. Sn^{IV}, by isotope dilution, 6C30
- , **dibutyl-**, detmn. in presence of other butyltin compounds and inorg. Sn^{IV}, by isotope dilution, 6C30
- , **dimethyl-, chloride**, sepn. from related compounds, by g.l.c., 6C29
- , **methyl-, chloride**, sepn. from related compounds, by g.l.c., 6C29
- , **tetramethyl-**, sepn. from related compounds, by g.l.c., 6C29
- , **tributyl-**, detmn. in presence of other butyltin compounds and inorg. Sn^{IV}, by isotope dilution, 6C30
- , *N,N*-dialkylthiocarbamates, sepn., by g.c., 2C45
- , **oxide**, detmn. in sea-water, differential pulse anodic-stripping voltamm., 5H89
- , **trimethyl-, chloride**, sepn. from related compounds, by g.l.c., 6C29
- Tin, reagents for**, Fe[Fe(CN)₆], 5B21
- 1-(2-pyridylazo)-2-naphthol, 3B94
- Tin alloys**, detmn. of Fe in bronze, spectroph., 1B42
- Tin compounds**, analysis of org., in wood preservatives or preservative-treated wood, by t.l.c. - densitom., 2C102
- g.c. study of diene and monoene trialkyl, 6C28

Tin tetrachloride, identn. and detmn. of impurities in, by g.l.c. - m.s., 3B95

Tinidazole, detmn., colorim., 4E3

Tiopronin, detmn. in pharmaceutical preparations, spectroph., 1E9

Tiron, see *Benzene-3,5-disulphonic acid, 1,2-dihydroxy-, disodium salt*

Titanium, analysis of surface layer of oxide films on, X-ray photoelectron spectrom., 4B12

detection, colour reactions for, 5B25

detmn., by XRF, 6B18

gelatin-film calibration standard for, 1J98

coulom., 3B17

spectroph., 1B13, 1B113, 2B101, 3B97, 6B105

in air-borne dust, with laser micro-probe mass analyser, 3H12

in aluminium, spectrogr., 2B53

in ash, spectrosc., 3B16

in biol. materials, by XRF, 1F4

spectrogr., 5D12

in brine, by a.e.s., 4B152

in coal or fuel oil, emission spectrom., with pre-concn. on poly-(dithiocarbamate) resin, 5B179

in corundum single crystals or raw materials, spectrogr., use of fluorination reactions for, 1B114

in feed grains, differential pulse polarogr., 6G3

in graphite, emission spectrom., with pre-concn. on chelating resin, 2B87

in iron, by PIXE, 2B14

in liquid samples, spectrogr., 2J108

in magnesium, spectrogr., 3B44

in minerals, ores of rocks, by XRF, 5B172

comparison of methods for, 1B191

in nickel alloys, emission spectrom., 2B157

photom., 1B178

in petroleum or petroleum products, by XRF, 2C76

spectroph., 6C56

in plants, spectrogr., 6D36

in presence of Ce, Cr, La, U and Zr, ion-exchange chrom. - spectrogr., 5B19

of other elements, by t.l.c. of anthrylglyoxal 4-diethylaminoanil complexes, 1B20

in serpentine, with electron micro-probe, 5B176

in silicates, by XRF, 2B91

in silicon, differential pulse polarogr., 5B95

in soap, by a.a.s., 4C65

in soil, difference chronoamperom., 2H57

spectroph., 6D36

in steel, spectrogr., in flowing gas atmosphere, 3B137, 3B138, 3B139

in Ti - Hg alloy, complexom., 2B102

in tungsten, by proton activation, 4B147

in urine, emission spectrom., 2D36

in vermiculite, with X-ray micro-probe, 1B194

in water, difference chronoamperom., 2H57

polarogr., 2H56

spectroph., 6D36

of distribution of, in alloys, by laser irradiation - XRF, 2B146

of Mo and Ni inclusions in, by PIXE, 2B14

ion-exchange study of, 6B14

sepn. from Ce, Cr, Fe, U and Zr, ion-exchange chrom., 6B106, 6B107

from Cr, Fe and Zr, ion-exchange chrom., 5B109

from other elements, by t.l.c., 1B23

from U, by ion exchange, 1J61

study of stress-induced H migration in, 5A4C

Titanium, reagents for, 3-aryl-2-mercapto-3-methylpropenoic acids, 5B25

chlorophosphonazo 1, 6B105

Chrome Azurol S, 1B13

chromotropic acid, 6D36

o-hydroxyquinolphthalein - polysorbate 20, 1B113

pyridoxal salicyloylhydrazone, 3B97

tiron, 5B19, 6C56

1-(1,2,4-triazol-3-ylazo)-2-naphthol, 2B101

Titanium alloys, detmn. of Al in, ion-exchange chrom. - spectroph., 1J60

of Fe in, spectroph., 2B104

of V in, by a.a.s., 4B128

—, **Ti - Cu**, intermetallic phases in, 1A1C

—, **Ti - Cu - Zn**, detmn. of elements in, with electron micro-probe, correction methods for, 2B9

—, **Ti - Fe**, detmn. of Ti in, spectroph., 6B104

—, **Ti - Hg**, detmn. of Hg and Ti in, complexom., 2B102

Titanium dioxide, detection of impurities in, spectrogr., 1J122

Titanium hydride, detmn. of H in, by N carrier gas - h.f. hot-extraction method, 5B28

Titanium nitride, detmn. of composition and thickness of O-containing films of, on silicon, by combined X-ray and nuclear micro-analysis, 1B208

of N in, with automated electron micro-probe, 2B103

Titanium ores, detmn. of V in, by a.a.s., 4B128

Titrimetry, acid - base, notation for curves in, and review of methods used in evaluation of equiv. vol. in, 2A18

weighting scheme for regression analysis in, 4A15

automated, review, 6J128

automated system for, 6J15, 6J16, 6J17

Titrimetry—continued

- calibration of irregularly shaped vessels for, by isotope dilution - m.s. using Lu, 4J3
 optimisation of procedures for, review, 1J18
 KMnO_4 in redox, review, 3A20
 semi-automated apparatus for, with catalytic end-point detection, 4J16
 weight titrations, review, 4A14
- Titrimetry, calorimetric**, microcomputer-controlled system for, 6J172
- Titrimetry, complexometric**, applied, 2B181B
 end-point indication with Alizarin red S-selective electrode in potentiometry, 4J136
 theory of back-titrations in, 3A21
 with EDTA in presence of citrate or tartrate, 1A17
- Titrimetry, coulometric**, acid - base and oxidation - reduction, in non-aq. media, 1A18
 with Ce^{IV} generated anodically in acetic acid medium, 1A19
 with Cr^{VI} in org. media, 1A20
- Titrimetry, enthalpimetric**, feeder of reaction soln. for direct-injection, 4J15
- Titrimetry, potentiometric**, acid - base, analysis of mixtures of acids by, 2A19
 notation for curves in, and review of methods used in, evaluation of equiv. vol. in, 2A18
 auto-titrator for, 3J149
- Tobacco**, analysis, automated, 5D3
 of *N*-nitrosamines in, by g.l.c. - thermal energy analysis, 3D138
 detmn. of Cd and Zn in, by a.s.s., 3B52
 of Fe in, spectroph., 2B142
 of nicotine, stem content, sugars and H_2O in, automated, 1D5
 of nicotine, sugars and H_2O in, automated, 1D4
 of pigments in flue-cured, by h.p.l.c., 4D272
- Tobacco smoke**, analysis of *N*-nitrosamines in, by g.l.c. - thermal energy analysis, 3D138
 of org. gas phase of, by g.c., with use of pattern recognition, 6D11
 of volatile fraction of condensate of, liquid chrom. - g.c. - m.s., 1D6
 detmn. of imidazolidine-2-thione in condensate of, by g.l.c. of methyl deriv., 3G38
 of polyalkylated dibenzanthracenes and indenopyrenes in, by g.c. - m.s., 5J85
- Tobramycin**, detection in blood serum, solid-phase reagent strips for, 6D49
 detmn., by h.p.l.c. of 2,4-dinitrophenyl deriv., 4E28
 in blood serum, by h.p.l.c., 4D65
 by h.p.l.c. of trinitrophenyl deriv., 4D66
 in blood serum or saliva, by fluoro-immunoassay, 6D63
 in presence of other aminoglycosides, by h.p.l.c., 4D64
- Tocopherols**, detmn. in soya-bean or sunflower-seed oil, by h.p.l.c., 3F54
 in vegetable oils, by g.l.c., 1F55
 by h.p.l.c., 2F61
 sepn. and detmn. in fats or fatty oils, by h.p.l.c., 5F73
 —, α -, detmn., differential pulse voltamm., 2D24
 in biol. materials, by h.p.l.c., 5D193
 in biol. tissues or blood plasma, by h.p.l.c., 4D295
 in blood plasma or blood serum, by h.p.l.c., 4D293
 in cod-liver oil, by h.p.l.c., 3F53
- Todrazoline**, detmn., a.c. oscillogr., a.c. sinusoidal polarogr. or d.c. polarogr., 3E59
 differential pulse polarogr., 3E61
 polarogr., 3E60
 in blood serum or urine, sinusoidal a.c. polarogr., 4D113
- o*-Tolidine**, detmn., coulomb. or voltamm., 6J164
- Toloxatone**, detmn. in blood plasma, by g.l.c. of TMS deriv., 6D93
- Tolpropamine hydrochloride**, differentiation of polymorphs of, i.r. spectrom., 3E8
- Toluene**, detmn. in air or aq. soln., by secondary-ion m.s., 1H36
 in blood, by g.l.c., using purge-and-trap method, 5D83
 in dimethylmercury, by m.s., 5C25
 in gas mixtures from xylene manufacture, by g.c., 2C47
 in tetraethyl-lead, by g.l.c., 2C72
 in waste water, by g.l.c., 1H89
 of metabolite of, in urine, by h.p.l.c., 3D135, 3D136
 of tricarbonylmethylcyclopentadienylmanganese in, emission spectrom., 3C56
 sepn. from other aromatic hydrocarbons, by h.p.l.c., use of multiple linear-regression analysis for calculation of conditions for, 5C30
- , **di-isocyanato-**, detmn. in air, by g.c. of heptafluorobutyl deriv., 6H28
- , **2,4-di-isocyanato-**, detmn. in air, by g.c. - m.s., 2H33
 by g.l.c., 5H38
 by h.p.l.c. of deriv. formed with 4-aminophenol, 2H32
 in rubber fumes, by h.p.l.c. of ethylurethan deriv., 3H39
- , **2,6-di-isocyanato-**, detmn. in air, by g.l.c., 5H38
- , **2,4-dinitro-**, detmn. in presence of other explosives, by g.c., 2C128
 in waste water, by g.l.c., 2H100
 sampling of, from water, evaluation of sorbents for, 5H88
- , **2,6-dinitro-**, detmn. in waste water, by g.l.c., 2H100
 sampling of, from water, evaluation of sorbents for, 5H88
- , **2,4,6-trinitro-**, detection, by h.p.l.c. - negative-ion chemical-ionisation m.s., 1C126
 detmn. in explosives mixtures, by h.p.l.c. - m.s., 2C127
 in presence of other explosives, by g.c., 2C128

Toluene, 2,4,6-trinitro—continued

- sampling of, from water, evaluation of sorbents for, 5H88
 sepn. of nitration by-products in, by h.p.l.c., 4C87
- Toluene derivatives, chloro-**, detmn. in fish, sediments or water, by g.l.c., 1H75
- Toluene-2,5-diamine**, detmn. in oxidative hair dyes, by h.p.l.c., 2C97
 by t.l.c. - densitom., 2C96
- Toluene-2,4-disulphonamide, 5-amino- α,α,α -trifluoro-**, detmn. in presence of bendrofluzide, by h.p.l.c., 3E71
- Toluene-4-sulphonamide, *N*-chloro-**, sodium salt, preparation and use of $[\text{^{35}Cl}]$ -, 2A10
- Toluene-*o*-sulphonic acid, 4-nitro-**, detmn. in sulphuric acid wastes, spectroph., 3H101
- Toluene-*p*-sulphonic acid**, detmn. in sulphuric acid wastes, spectroph., 3H101
- p*-Toluid acid**, detmn. in raw materials for poly(ethylene terephthalate) production, by g.l.c. of methyl ester, 5C83
 — methyl ester, detmn. in aq. soln., by g.c., 1C47
- o*-Toluidine**, sepn. from *p*-toluidine, paper chrom., 6J48
- p*-Toluidine**, sepn. from *o*-toluidine, paper chrom., 6J48
- Tomatoes**, detmn. of Br in, by g.l.c., as 2-bromoethanol, 5F50
 of dazomet in, by h.p.l.c., 3G39
 of dithiocarbamate fungicides in, by h.p.l.c., 3G37
 of organochlorine and organophosphorus pesticides in, by g.l.c., 2G11
 of 1,2,3,4-tetrahydro-6-hydroxy-1-methyl- β -carboline in, by g.c. of pentafluoropropionyl deriv. - m.s., 3F49
- Tordon**, see *Picloram*
- Toxaphene**, see *Camphechlor*
- Toxicological analysis**, analytical aspects of drug - diet mixtures used in, 4E89
 applications of deriv. spectroscopy in, review, 3D6
 methodology for, 3D321B
 quality assurance in, 6D48
 requirements for emergency, 6D46
- Toxogonin**, see *Obidoxime chloride*
- Trace analysis**, importance of co-extraction in concn. and sepn. in, review, 3A3
 inorg. m.s. for, 4A1C
 of special and refractory metals, review, 6B1
 prevention of contamination from PTFE vessel in, 6J1
 review, 5A7
 sampling and storage of materials for, review, 5J1
 sources of contamination in, 1H1
- Tragacanth**, sepn. of sugar enantiomers in hydrolysates of, by g.l.c. of trifluoroacetylated (-)-bornyloxime deriv., 5C16
- Transferrin**, detmn., by enzyme immunoassay, 5D166
 in seminal plasma, immunonephelom., 4D241
- Transformer oils**, detmn. of PCB in, comparison of g.c. methods for, 3C84
 of H_2O in, by m.s., 2C79
- Transketolase**, see under *Enzymes, specific*
- Transplutonium elements**, sample preparation for α -spectrometry of, 6B84
- Transthyretin**, see *Prealbumin*
- α,α -Trehalase**, see under *Enzymes, specific*
- Trenbolone**, detmn. in blood plasma or muscle tissue, by r.i.a., 3D74
- Tretinoin**, chrom. methods for analysis of creams containing, 1E2
 detmn. in creams, by h.p.l.c., 2E1
- Tri-*allate***, detmn., by h.p.l.c., 5G29
 in water, by g.l.c., 5H92
 identn. in grain pellets, by g.l.c. - m.s., 2G18
- Triaminolone**, detmn. in pharmaceutical preparations, spectroph., 5E26
 — acetone, detmn. in blood plasma, by r.i.a., 2D71
- 1,3,5-Triazine, hexahydro-1,3,5-trinitro-**, detection, by h.p.l.c. - negative-ion chemical-ionisation m.s., 1C126
 detmn. in explosives mixtures, by h.p.l.c. - m.s., 2C127
 in presence of other explosives, by g.c., 2C128
 sampling of, from water, evaluation of sorbents for, 5H88
- , **2,4,6-triamino-**, see *Melamine*
- Triazine derivatives**, asymmetric, as analytical reagents, review, 1A11
 detmn. in water, by g.l.c. or h.p.l.c., 1H83
 sepn., by g.c., 1G28
- Triazolam**, detmn., spectroph., 4E43
 in blood plasma or urine, with its metabolite, by g.l.c. of TMS deriv., 6D92
 in pharmaceutical preparations, polarogr., 5E33
 —, **5,6-dihydro-**, electrolytic synthesis of, 5E33
- Triazole, tolyl-**, detmn. in engine coolants, by h.p.l.c., 5C91
- 1,2,4-Triazole, 3-(2-ethylphenyl)-5-(3-methoxyphenyl)-1H-**, detmn. in blood plasma, by g.c., 6A5C
- Tributylamine, perfluoro-**, electrochem. and kinetic study of O in, 4E88
- Trichloromercurate(II)**, detmn., potentiom., ion-selective electrode for, 6J41
- Trichlorometaphos-3**, detmn. in fruit or vegetables, by t.l.c., 2G15
- Trichloromethiazide**, detmn. in presence of related compounds, by t.l.c. - spectroph., 2E63
- Trichlorphon**, detmn. in rice, by g.c., 6G34
- Trichomonades**, detection, colour reaction for, 6E31

- Trichothecenes**, detection, by t.l.c., 5G20
sepn., by g.l.c., 1J79
sepn. and detmn., by h.p.l.c., 3G6
- Triclosan**, identn. and detmn. in cosmetics, 2C95
- Triethylamine**, detmn., by oscillograph, titration, 6C9
with modified thermal energy analyser, 1C34
- **N-oxide**, detmn. of H_2O in, semi-automated potentiom., 3C100
- Triethylene glycol dimethacrylate**, detmn. in water, a.c. polarogr., 2C119
- Triethylenediamine**, see *Bicyclo[2.2.2]octane, 1,4-diaza-*
- Trifluoperazine**, detmn., titrim., 6E38
— **dihydrochloride**, detmn., polarogr., 6E40
- Trifluralin**, detmn. in water, by g.l.c., 5H92
sepn. from related herbicides, by g.c., 1G29
- Triforine**, detmn. in apples or cucumbers, by t.l.c., 3G34
- Trigonelline**, detmn. in coffee, by h.p.l.c., 3F43
- Trimellitic acid**, detmn. in presence of its anhydride, by g.l.c. of trimethyl ester, 1D106
- Trimellitic anhydride**, detmn. in presence of its parent acid, by g.l.c. of methyl ester, 1D106
- Trimethadione**, see *Troxidone*
- Trimethoprim**, detmn. in biol. fluids, by h.p.l.c., 6D115
in presence of sulphamethoxazole *in vitro* and *in vivo*, 6E57
- Trioxsalen**, detmn. in blood, ophthalmic fluids or skin-tissue homogenate, by h.p.l.c., 4D124
- Tripelennamine hydrochloride**, detmn. in feeding-stuffs, urine or waste water, by h.p.l.c., 4G12
- Triphosphate**, detmn. in water, ion-exchange chrom., 5H71
- Tris**, see *Methane, tris(hydroxymethyl)amino-*
- Trithionate**, detmn. in presence of other sulphur anions, by h.p.l.c., 6B125
- Tritium**, applications and synthesis of compounds labelled by, 6A2C
detmn., encapsulated scintillators for, 3D24
in H-isotope mixtures, by m.s., instruments for, 2J141
of H^3 and H^3HO in air, monitor for, 2H8
of release of, from solid materials, apparatus for, 5B29
on-line monitor for, 4J123
testing and evaluation of H^3 - H_2O monitor, 6J6
wide-range monitor for, 3J131
- Tropacine**, sepn. from metacin and identn., by t.l.c., 5E38
- Tropice**, detmn. in presence of other tropane alkaloids, by t.l.c. - densitom., 1E24
- Troxidone**, detmn. in blood plasma, with its metabolite, by g.l.c., 3D80
- Trypsin**, see under *Enzymes, specific*
- Tryptamides, 5-hydroxy-**, detmn. in foods, by t.l.c., 5A2C
- Tryptamine**, detmn. in foods, with amino-acid auto-analyser, 2F4
in presence of other indolamines, by h.p.l.c., 3D215
in urine, liquid chrom., 3D206
- **N-acetyl-5-hydroxy-**, detmn., by r.i.a., 5D131
- **N-acetyl-5-methoxy-**, detmn., by r.i.a., 5D131
in blood plasma, by r.i.a., 2D203
- **NN-diethyl-**, detection of 2-(indol-3-yl)ethanol and its 1-diethylamino-deriv. in, 1E59
- **NN-dimethyl-**, detmn. in urine, liquid chrom., 3D206
- **5-hydroxy-**, detection in brain tissue, by h.p.l.c., 3D205
detmn., by g.c. - m.s., 3D10
by r.i.a., 5D131
in biol. materials, by h.p.l.c., 2D202
review, 4D187
in blood, blood serum or platelet-rich blood plasma, by h.p.l.c., 5D132
in brain tissue, by h.p.l.c., 2D199, 2D200, 4D217, 5D120, 5D130
automated, 5D128
in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D155
in cerebrospinal fluid, by h.p.l.c., 1D164
in foods, by t.l.c., 5A2C
in presence of other indolamines, by h.p.l.c., 3D215
of tryptophan and metabolites, comparison of h.p.l.c. methods for, 1D177
in urine, liquid chrom., 3D206
effect of temp. on stability of, 4D188
sepn. from its metabolite, by h.p.l.c., 1D152
from other biogenic amines and products of their caeruloplasmin-catalysed oxidation, by h.p.l.c., 2D196
- **creatinine sulphate**, sepn. from heparin, by t.l.c., 2E32
- **5-hydroxy-NN-dimethyl-**, detmn. in urine, liquid chrom., 3D206
- **5-hydroxy-N-methyl-**, detmn. in urine, liquid chrom., 3D206
- **5-methoxy-**, detmn., by r.i.a., 5D131
- **N-methyl-**, detection of [^{13}C , ^{15}N]-, in urine, by g.l.c. - selected-ion monitoring, 3D9
detmn. in urine, liquid chrom., 3D106
- Tryptophan**, detmn., differential pulse voltamm., 2D24
in blood plasma, with its metabolites, by h.p.l.c., with enrichment on pre-column, 1D178
in brain tissue, by h.p.l.c., 2D199, 2D200
in presence of amino-sugars and 5-methyltryptophan, with amino-acid analyser, 5D140
of 5-hydroxytryptamine and metabolites, comparison of h.p.l.c. methods for, 1D177
of other indolamines, by h.p.l.c., 3D215
in veterinary formulations, by t.l.c. - spectroph., 2E34
of enantiomeric purity of, by h.p.l.c., 3E17
- Tryptophan—continued**
- **5-fluoro-**, detmn. in proteins, by h.p.l.c. of phthalaldehyde deriv., 5D139
- **5-hydroxy-**, detmn. in biol. materials, by h.p.l.c., 2D202
in brain tissue, by h.p.l.c., 5D130
in brain tissue or cerebrospinal fluid, by h.p.l.c., 1D155
in cerebrospinal fluid, by h.p.l.c., 1D164
- **5-methyl-**, detmn. in presence of amino-sugars and tryptophan, with amino-acid analyser, 5D140
- Tryptophol**, detmn. in brain tissue, by h.p.l.c., 4D217
- Tuberculostearic acid**, detection in sputum, by g.l.c. of methyl ester - m.s., 1D119
- Tubulin**, detmn. of total and microtubule-derived, in liver tissue, by colchicine-binding assay, 5D164
sepn. of species of, by isoelectric focusing, visualisation method for, 2D237
- Tulobuterol**, detmn. in blood serum, by g.l.c. of TMS deriv. - m.s., 6D113
- Tungstate**, detmn., coulom., 2B124
sepn. from CrO_4^{2-} and MoO_4^{2-} , ion chrom., 3C40
- Tungsten**, analysis, review, 6B1
detection, by synchrotron-radiation XRF, 2J87
detmn., by catalytic - spectroph. method, 5B24
spectroph., 1B144, 3B125, 3B126, 4B146, 5B133, 6B138
in biol. tissues, emission spectrom., 2D35
in grass, by n.a.a., 3D20
in heat-resisting alloys, by isotope dilution - m.s., 6B155
in minerals, ores or rocks, indirect polarogr., 2B133
in nickel alloys, emission spectrom., 2B157
in organometallic compounds, spectroph., 6C7
in plants, by XRF, 3G19
in presence of Cr, Mo and V, by t.l.c. - spectroph., 6B110
in steel, by isotope dilution - m.s., 6B155
in tantalum, by proton activation, 6B123
of distribution of, in alloys, by laser irradiation - XRF, 2B146
of impurities in, by proton activation, 4B147
sepn. of W^{III} and W^{IV} , magneto-paper electroph., 3B15
solvent extraction of, review, 1B143
- Tungsten, reagents for**, bromopyrogallol red - hexadecyltrimethylammonium ion, 3B125
dibromoalizarin violet - hexadecyltrimethylammonium bromide, 1B144
hexadecyltrimethylammonium bromide - salicylfluorone, 5B133
salicylfluorone, 3B126
SCN $^-$, 6B110
rutin, 6B138
- Tungsten alloys, W - Fe**, detmn. of Sb in, a.c. stripping voltamm., 2B148
- Tungsten complex**, with catechol violet and hexadecyltrimethylammonium ions, 5B9
- Turneric**, detmn. of colouring power of, BSI spectroph. method for, 4F13
- Tyramine, 3-methoxy-**, detmn. in urine, by h.p.l.c., 6D202
- Tyrosine**, detmn. in brain tissue, by h.p.l.c., 6D212
in presence of related compounds, by h.p.l.c., 3E36
h.p.l.c. study of, 4D207
sepn. from aspartic acid, by selective sorption, 6D213
of enantiomers of, by h.p.l.c. of *N*-acetyl deriv. of methyl ester, 4J34
- **3,5-di-iodo-**, detmn. in presence of related compounds, by h.p.l.c., 3E36
- **3-fluoro-**, detmn. in proteins, by h.p.l.c. of phthalaldehyde deriv., 5D139
- **3-iodo-**, detmn. in presence of related compounds, by h.p.l.c., 3E36
- **leucyl-**, h.p.l.c. study of *D*- and *L*-, 4D207
- **phospho-**, detmn. in proteins, with automatic amino-acid analyser, 3D214
- Tyrosine 3-monooxygenase**, see under *Enzymes, specific*

Uranium, determination—continued

- potentiom., 4B91
 UO_2^{2+} -selective electrode for, 3J138
 spectroph., 2B71, 4B92, 4B93, 5B84, 5B85, 6B72
 voltamm., 1B93
 in coal or fuel oil, emission spectrom., with pre-concn. on poly-(dithiocarbamate) resin, 5B179
 in foods, spectroph., 3F4
 in LSI constituent materials, by secondary-ion m.s., 1B204
 in milk or milk powder, by fission-track method, 5F45
 in minerals, ores or rocks, α -spectrom., 4B95
 deriv. oscillogram, 2B72
 in ore leachates, by automated flow-injection - spectroph. method, 4B94
 in plutonium or plutonium compounds, ion-exchange chrom. - XRF, 4B83
 in presence of Ce, Cr, La, Ti and Zr, ion-exchange chrom. - spectroph., 5B19
 of Pu, potentiom., 3B77
 in sea-water, by n.a.a., with pre-concn. by colloid flotation, 4H44
 with pre-concn. by column electrolysis, 5H55
 potentiom., with UO_2^{2+} -selective electrode, 5H63
 in tailings, emission spectrom., 6B75
 in water, liquid chrom. - fluorim., 3B75
 in zircon, fluorim., 2B106
 of α -emitting isotopes of, in biol. tissues, by co-pptn. with $\text{Fe}(\text{OH})_3$ - electro-deposition - α -spectrom., 4D31
 of enriched, in urine, α -spectrom., 5D17
 of impurities in, emission spectrom., 1B95
 of isotopes of, in nuclear-reactor fuels, by m.s., 1B94
 in sediments, radiochem., 3H54
 of isotopic ratios of, by m.s., 2B76
 of Mg, Mn, Ni and Zn in, by a.a.s., 5B88
 of O-to-U ratio in uranium oxides, polarogr. - amperom., 2B78
 of Ra-to-U ratio in uranium ores, using 'hyperpure' germanium detector, 1B96
 of Th and Zr in, spectrogr., 6B76
 of U^{IV} and total, in uranium oxides, titrim., 3B76
 of ^{235}U in spent nuclear-reactor fuels or waste solids, control system for delayed-neutron interrogator for use in, 3B82
 of ^{235}U -to- ^{238}U ratio, by m.s., 2B74
 in water, by ion exchange - n.a.a., 5H62
 ion-exchange study of, 1B98
 isotopic analysis, by m.s., automated, 3J94
 isotopic enrichment of, ion-exchange chrom., 2B75
 reference materials containing, 4B90
 sepn. from Co, ion-exchange chrom., 6B163
 from Ga, ion-exchange chrom., 2B56
 from other elements, by ion exchange, 1J61
 by t.l.c., 1B23
 ion-exchange chrom., 3B79
 from sea-water, on cellulose exchanger, 4H53
 from ^{234}Th , by ion exchange, 4J53
 from Ti, ion-exchange chrom., 6B106, 6B107
 of U^{IV} and UO_2^{2+} from Fe^{II} and from each other, and of UO_2^{2+} from Fe^{III} , ion-exchange chrom., 3B78
 of ^{232}U from other fission-product elements, liquid chrom., 6B22
 solvent extraction of, with crown ethers, 3B66, 4B97
 with γ -irradiated sulphoxides or tributyl phosphate, 1B18
 with β -isopropyltoluene in presence of neutral donors, 5B86
 with Kelex 100, 2B73
 with tributyl phosphate from HCl or HClO media, 3B80
 with triethylphosphine oxide from sea-water, 4H52
 —, **fission products of**, sepn., by solvent extraction, 4B102
 of Am and rare-earth metals from, by solvent extraction, 5B89
Uranium, reagents for, arsenazo III, 2B71, 4B93
 arsenazo M, 6B72
 benzofuroin oxime, 5B85
 benzyldimethyltetradecylammonium chloride - 2-(5-bromo-2-pyridyl-azo)-5-diethylaminophenol, 4B94
 Chrome Azurol S - hexadecylpyridinium bromide, 3F4
 Chromal blue G - hexadecyltrimethylammonium chloride, 4B92
 2-(3,5-dibromo-2-pyridylazo)-5-[N-ethyl-N-(3-sulphopropyl)amino]-phenol, 5B84
 tiron, 5B19
Uranium hexafluoride, detmn. of impurities in, emission spectrom., 2B77
Uranium ores, detmn. of Ra-to-U ratios in, using 'hyperpure' germanium detector, 1B96
Uranium oxides, detmn. of O in, gravim., 4B98
 of O-to-U ratio in, polarogr. - amperom., 2B78
 of U^{IV} and total U in, titrim., 3B76
 —, U_3O_8 , detmn. of impurities in, emission spectrom., 5B87
 of Mg, Mn, Ni and Zn in, by a.a.s., 5B88
Urea, analysis of condensation products with formaldehyde of, by n.m.r., review, 6C82
 detmn., acceptable limits for precision and accuracy in, 3D3
 enzyme electrodes for, 2J175, 2J177
 enzymic - flow micro-calorim., 4D186
 in blood plasma, continuous-flow enzymic - colorim., 1D14
 drug interference in reagent strip method for, 4D185

Urea, determination—continued

- in blood serum, by enzyme-linked radial-diffusion method, 2D192
 comparison of methods for, using pattern recognition, 2D21
 effect of lipaemia in SMAC method for, 2D19
 flow-through detector for, 1D15
 with use of Ames Seralyzer, 2D26, 6D13
 effect of freeze-drying in, 3D197
 with use of reactive strips, 2D25
 in chipboard, gravim. or with Merckognost test-strip, 1C99
 in fertilisers, by h.p.l.c., 5G16
 in goats' milk, enzymic - spectroph., 1F29
 Raman-spectrom. study of synthesis of, 4C22
 sepn. from heparin, by t.l.c., 2E32
 —, **3-[3-acetyl-4-(3-t-butylamino-2-hydroxypropoxy)phenyl]-1,1-diethyl-,** see *Celiprolol*
 —, **1-(4-chlorobenzyl)-1-cyclopentyl-3-phenyl-,** see *Pencycuron*
 —, **N-(2-chloro-4-nitrophenyl)-N'-(4-iodophenyl)thio-,** as reference material for org. elementary analysis, 2C3
 —, **dimethylenetri-,** detmn. in fertilisers, by h.p.l.c., 5G16
 —, **ethylenethio-,** see *Imidazolidine-2-thione*
 —, **methylenedi-,** detmn. in fertilisers, by h.p.l.c., 5G16
 —, **N-methyl-N-nitroso-, derivatives,** detmn., polarogr., 3C37
 —, **N-nitroso-N-phenyl-, derivatives,** detmn., polarogr., 3C37
 —, **phenylthio-,** detmn., coulom., with Cr^{VI} in org. media, 1A20
 —, **thio-,** detmn., by kinetic - spectroph. method, 1C9
 coulom., with Cr^{VI} in org. media, 1A20
 mol.-emission-cavity spectrom., shape of calibration curve in, 4C24
 spectroph., 4E70, 5C7
 in pharmaceutical preparations, differential pulse polarogr., 3E30
 in soln. from production of thiourea dioxide, spectroph., 2C41
 —, —, **dioxide,** analysis of soln. from production of, spectroph., 2C41
Urea derivatives, hydroxymethyl, analysis of mixtures of, by h.p.l.c., 2C121
Urea-nitrogen, detmn., evaluation of Hitachi 705 analyser for, 4D11
 with Cobas-Bio centrifugal analyser, 2D20
 in fertilisers, gas-phase mol.-absorption spectroph., 5G15
Urease, see under *Enzymes, specific*
Urginea maritima, sepn. of cardiac-active glycosides in, by h.p.l.c., 2E18
Uric acid, detmn., acceptable limits for precision and accuracy in, 3D3
 bi-enzyme amperom. electrode for, 6J151
 evaluation of Hitachi 705 analyser for, 4D10
 iodim., indicators for, 1D244
 test for drug interferences in kit methods for, 2D23
 with Cobas-Bio centrifugal analyser, 2D20
 in blood plasma or urine, by h.p.l.c., 6D262
 in blood serum, comparison of methods for, using pattern recognition, 2D21
 with use of Ames Seralyzer, 2D26, 6D13
 with use of reactive strips, 2D25
 in flour, automated spectroph., as indication of degree of insect defilement, 5F29
 in urinary calculi, inter-laboratory study of, 1D21
 in urine, by h.p.l.c., 5D191
 i.r. spectrum of, 1D22
 sepn. from other degradation products of adenine nucleotides, by t.l.c., 4D284
 — **salts,** i.r. spectra of, 1D22
 —, —, **ammonium,** detmn. in urinary calculi, inter-laboratory study of, 1D21
Uric acid, 1,3-dimethyl-, detmn. in biol. fluids, by h.p.l.c., 5D29
 in blood plasma or urine, by g.l.c. of propyl deriv., 6D59
 —, **3,7-dimethyl-,** detmn. in biol. fluids, by h.p.l.c., 5D29
 —, **1-methyl-,** detmn. in blood plasma or urine, by g.l.c. of propyl deriv., 6D59
 —, **3-methyl-,** detmn. in biol. fluids, by h.p.l.c., 5D29
Uridine, detection, by h.p.l.c. - m.s., 6D260
 in kidney-cell extracts, by h.p.l.c., 4D285
 detmn. in presence of other nucleosides, liquid chrom., 2D272
 — **pyrophosphate glucuronic acid,** detmn., by conjugation with stilboestrol, 4D288
 in biol. tissues, by h.p.l.c., 1D238
 in cell extracts, by h.p.l.c., 1D237
Uridine, deoxy-, detection, by h.p.l.c. - m.s., 6D260
 —, **hydroxy-,** detection, by h.p.l.c. - m.s., 6D260
Urinary calculi, analysis, comparison of PIXE and XRF methods for, 1A1C
 i.r.-spectrosc. method for, 2D18
 inter-laboratory study of, 1D21
 multiple-technique approach to, 5D5
 identn. of components of, spectrosc., 1D22
Urine, analysis, by fast-atom-bombardment and field-desorption m.s., 6J118
 effect of chemical preservation in, 2D22
 specific gravity adjustment in, 3D7
 of aclarubicin metabolites in, by h.p.l.c. or t.l.c., 5D40
 of aldolins, automated ion-exchange chrom. of borate complexes - fluorim. (or spectroph.), 2D118
 of amino-acids in, by h.p.l.c. (or t.l.c.) of dabsyl deriv., 3D212

Urine, analysis—continued

- of arachidonic acid metabolites in, by h.p.l.c., extraction method for, 5D106
- of betamethasone metabolites in, by h.p.l.c. - m.s., 3D73
- of endogenous fluorescent substances in, by h.p.l.c., 4D6
- of glycoproteins in, gel electroph., comparison of staining methods for, 6D247
- of oligosaccharides in, by h.p.l.c. of ³H-labelled alditols, 2D122
- by t.l.c., source of error in, 3D153
- of peptides in, by h.p.l.c., 4D226
- of phenols in, liquid chrom. - spectroph., 2D129
- of polyamines and their acetyl deriv. in, with automated amino-acid analyser, 5D118
- of porphyrins in, by h.p.l.c., 3D267
- of steroids in, by g.c. of methoxime - TMS deriv., 5D113
- by g.c. - m.s., degradation of deriv. in, 1D138
- by secondary-ion m.s., 2D174
- by semi-automated g.l.c., 1D137
- of volatile metabolites of enterobacteria in, by head-space g.l.c., 6D3
- assay of α -amylase in, by SMAC method, 1D270
- spectroph., 1D271
- of pre-kallikrein in, radiom., 1D276
- of superoxide dismutase (Mn-containing) in, by enzyme immunoassay, 1D259
- detection of *N*-acetylneuraminic acid in free form in, by t.l.c., 5D172
- of acridine in, by t.l.c. - fluorim., 4D127
- of 4-aminophenazone in, by t.l.c. and u.v. spectroph., 4D91
- of anti-inflammatory analgesics and their metabolites in, by g.c. - m.s., 4D94
- of blood in, interpretation of reagent-strip results in, 2D16
- of caffeine in, by triple-quadrupole m.s., 3D11
- of catecholamine *O*-sulphates in, fluorim., 4D196
- of coproporphyrin in, by colour reaction, as screening test for lead poisoning, 2D263
- of deprenyl and its metabolites in, by t.l.c., 3D130
- of drugs in, by t.l.c. - tandem m.s., 4D51
- of ketazolam and oxazolam in, by t.l.c., 4D96
- of methaqualone in, by enzyme immunoassay, 4D79
- of [¹³C, ¹⁵N]methyltryptamine in, by g.l.c. - selected-ion monitoring, 3D9
- of 2,4,5-T in, by g.l.c. of methyl ester, avoidance of *N*-methyl-saccharin interference in, 1D107
- detection and detmn. of analgesic drugs and their metabolites in, by t.l.c. - colorim., 5D49
- of chloramphenicol in, by g.c. of TMS deriv. - m.s. or by h.p.l.c., 1F25
- detmn. of *N*-acetyl-5-methoxytryptamine and related compounds in, by r.i.a., 5D131
- of aconitic acid in, fluorim., 2C32
- of adrenaline in, by h.p.l.c., 6D199
- comparison of methods for, 6D198
- liquid chrom. - phosphorim., 3D203
- of albumin in, by enzyme immunoassay, 2D251
- by latex immunoassay, 1D203
- of Al in, by a.a.s., 2D49
- differential pulse polarogr., 3H51
- of amatoxins in, by r.i.a., 5D89
- of aminoglycosides in, by h.p.l.c., 4D64
- of amiodarone in, by h.p.l.c., 6D109
- of amiodarone and its metabolite in, by h.p.l.c., 5D63
- of NH₃ in, fluorim., 1D45
- of NH₄⁺, ammonium salts and total N in, ion chrom. - colorim. - Kjeldahl method, 1D43
- of amoxapine in, by g.l.c., 1D75
- of amoxicillin in, by h.p.l.c., 6D60
- of amphetamine and related compounds in, by r.i.a., 6D100
- of amphetamine deriv. in, by h.p.l.c., 4D106
- of 5 α -androstane-3 α ,17 β -diol in, by g.l.c. of TMS deriv., 4D179
- of aniline in, by g.c. of P-containing deriv. - m.s., 2D104
- by isotope dilution - g.l.c. - m.s., 1H80
- of aromatic hydrocarbon metabolites in, by h.p.l.c., 3D135, 3D136
- of As in, spectroph., 1D46
- of As in different chemical forms in, by g.c., as 2,3-dimercaptopropionol complexes, 1H66
- of aspirin and its metabolites in, by h.p.l.c., 3D84
- of BD 40 in, by h.p.l.c., 5D77
- of befunolol metabolite in, by g.l.c. of TMS deriv., 3D103
- of benoxaprofen glucuronide in, by g.l.c., 3D90
- of benzodiazepine deriv. in, by g.l.c. of corresponding benzophenones, 1D72
- of bile acids in, by r.i.a., 3D194
- of bioplerin and other pterins in, by h.p.l.c., 6D263
- of CV-1808 in, by h.p.l.c., 2D90
- of Cd in, by a.a.s., 4D30
- by Zeeman a.a.s., 3D36
- of caffeine and its metabolites in, by h.p.l.c., 5D29
- of Ca in, in presence of ioxaglate, 2D45
- of cannabinoid metabolites in, by enzyme immunoassay, 4D72
- collaborative study of, 4D71
- of carbofuran and its metabolites in, by t.l.c., 1D112

Urine, determination—continued

- of γ -carboxyglutamic acid in, by h.p.l.c. of phthalaldehyde deriv., 5D141
- of catecholamine deriv. in, by h.p.l.c., stabilisation for, 3D201
- with post-column derivatisation with 2-cyanoacetamide, 6D200
- by isolation on immobilised H₃BO₃ - h.p.l.c., 4D191
- of cefmenoxime in, by h.p.l.c., 5D38
- of cefoperazone in, by h.p.l.c., 4D62
- of ceftriazone in, by h.p.l.c., 5D37
- of celiprolol in, by h.p.l.c., 1D82
- spectroph., 1D81
- of chloramphenicol in, by t.l.c. - h.p.l.c., use of Sep-Pak C₁₈ cartridges in, 2D68
- of chlorophenols in, liquid chrom., with pre-concn. on copolymeric sorbent, 1H78
- of chloropyrrolene citrate in, by h.p.l.c., 4G12
- of chloroquine in, by reaction with chloroformate - g.l.c., 3D118
- of chlorpromazine in, differential pulse voltamm., 6J166
- of chlorpyrifos in, by g.c., and of 2,4-D and mecoprop in, by h.p.l.c., 6D141
- of chorionic gonadotrophin in, specificity of r.i.a. method for, 4D264
- of Cr in, by a.a.s., 4D39, 4D40
- of Cr^{III} and Cr^{VI} in, by selective sorption - emission spectrom., 2D58
- of cimetidine in, by h.p.l.c., 5D64
- of cimetidine in, by h.p.l.c., 1D89, 1D90
- of cisplatin in, by h.p.l.c., 4D120, 5D74
- of cisplatin metabolites in, by h.p.l.c., 6D121
- of citric acid in, fluorim., 2C32
- of clavulanic acid in, by h.p.l.c. of imidazole deriv., 6D60
- of Co in, comparison of photom. methods for, 6D45
- of codeine in, by g.c., 6D55
- by t.l.c., 4D53
- of colterol in, by h.p.l.c., 5D67
- of copovithane in, by h.p.l.c. of trinitrobenzenesulphonyl deriv. of hydrolysis product, 5D76
- of Cu in, by a.a.s., 1D26
- of coproporphyrins in, by h.p.l.c., 4D275
- spectroph., 5D176
- of coproporphyrins I and III in, by h.p.l.c., 5D177
- of corticosteroids in, by h.p.l.c. - fluorim., 5D115
- of creatinine in, by bioluminescence method, 5D122
- by flow-injection - spectroph. method, 6D205
- by g.l.c. of methyl deriv., 5D121
- by h.p.l.c., 6D203, 6D204
- continuous-flow potentiom., with picrate-ion-selective electrode, 2D206
- with use of enzyme reactor and NH₃ sensor probe, 3D208
- of creatinine in dried samples on filter-paper, spectroph., 1D160
- of CN⁻ in, by h.p.l.c., 1D39
- of cyclandelate metabolite in free and conjugated forms in, by g.l.c., 3D110
- of 5-S-cysteinyl-dopa in, by h.p.l.c., 3D225
- of cytarabine and its metabolite in, by h.p.l.c., 6D69
- of 2,4-D in, by g.l.c., 6G24
- of *pp*-DDT and its metabolites in, by h.p.l.c. - n.a.a., 4D136
- of dacarbazine and its metabolite in, polarogr., 3D122
- of dexamethasone and related compounds in, by t.l.c., 5D41
- of dextropropoxyphene and its metabolite in, by g.l.c., 5D51
- of di- and poly-amines in, by t.l.c. of dansyl deriv. - fluorim., 6D196
- of diazepam and its metabolites in, by g.l.c., 4D97
- of digoxin in, by enzyme immunoassay, 2D67
- of dipyrone metabolites in, by t.l.c., 6D83
- of diquat in, by h.p.l.c., 1D113
- of disopyramide and its metabolite in, by h.p.l.c., 6D107
- of dopamine in, by h.p.l.c., 6D199
- of doxepin in, spectroph., 3E49
- of doxorubicin in, differential pulse voltamm., with pre-concn. at carbon-paste electrode, 3D69
- of drugs in, by h.p.l.c., 3D55
- of drugs and metabolites in, 4D47
- by automated h.p.l.c., 4D48
- extraction-chrom. clean-up system for, 2D61
- of drugs of abuse in, inactivation of lysozyme in EMIT-dau method for, 1D51
- of dye metabolites in, by g.c. of heptafluorobutyl deriv. or by h.p.l.c., 3D137
- of ecgonine in, liquid chrom. - t.l.c., 5D27
- of elements in, emission spectrom., 2D33
- with pre-concn. on dithiocarbamate resin, 2D36, 2D37
- using three-electrode plasmatron, 6H1
- of enriched U in, α -spectrom., 5D17
- of enterodiol and enterolactone in, by g.c. of TMS ether deriv. - m.s., 2D128
- of enviroxime in, by h.p.l.c., 1D91
- of ethylenediamine in, by h.p.l.c., 4D107
- of ethylmorphine in, by g.c., 6D55
- of fenquzone in, by g.l.c. of tetramethyl deriv., 3D128
- of ferritin in, by enzyme immunoassay, 1D205
- of flecainide in, by h.p.l.c., 3D114
- of flunarizine in, by g.l.c., 3D132

Urine, determination—continued

- of F^- in, by flow-injection - potentiom. method, using ion-selective electrode, 1J13
 of frusemide and its metabolite in, by h.p.l.c., 3D127
 of glucine in, spectroph., 1D53
 of glucaric acid in, enzymic, 4D153
 of Au in, anodic-stripping voltamm., 2D44
 of heparin in endogenous and exogenous forms in, by competitive-binding method, 3D155
 of heptaminol in, by h.p.l.c. of phthalaldehyde deriv., 6D106
 of heptan-4-one in, by g.l.c. - m.s., 4D147
 of hexobarbitone metabolites in, by g.c. of chloromethyltrimethylsilyl (or TMS) - pentyl deriv. - m.s., 2D78
 of histamine in, by extraction as Cu^{II} chelate - a.a.s., 1D162
 by h.p.l.c., 5D126
 of hydrocortisone in, evaluation of h.p.l.c. method for, 6D192
 of 5-hydroxyindol-3-ylacetic acid in, by h.p.l.c., 6D164
 by high-performance t.l.c., 5D129
 interference by oxprenolol metabolite in, 4D203
 spectroph., 6D206
 of 4-hydroxy-3-methoxymandelic acid in, by g.l.c. of TMS deriv., 6D165
 by h.p.l.c., 6D164, 6D166
 of 3-hydroxy-4-methoxyoestra-1,3,5(10)-trien-17-one in, by r.i.a., 2D179
 of 4-hydroxy-3-methoxyphenylacetic acid in, by g.l.c. of TMS deriv., 6D165
 by h.p.l.c., 5D104, 6D164
 by h.p.l.c. - fluorim., 2D144
 by t.l.c. - colorim., 2D145
 of 4-hydroxy-3-methoxyphenylethanol in, by g.c., 5D94
 of hydroxyproline in, colorim., interference by isothalamate in, 1D176
 of hydroxyproline in different chemical forms in, spectroph., 5D138
 of hypoxanthine in, by h.p.l.c., 4D290
 of imidazol-4-ylacetic acid in, enzymic - spectroph., 5D127
 of IgG in, by enzyme immunoassay, 6D241
 of indol-5-ol in, interference by oxprenolol metabolite in, 4D203
 of indol-3-ylacetic acid in, interference by indomethacin metabolite in colorim. method for, 1D166
 of I in, losses during ashing in, 6F26
 of iohexol in, by h.p.l.c., 6D127
 of ketanserine in, by h.p.l.c., 3D111
 of Pb in, by a.a.s., matrix effects in, 3D42
 of loxapine in, by g.l.c. - m.s., 1D74
 of maleic anhydride - divinyl ether copolymer in, by h.p.l.c., 3D123
 of Hg in, by a.a.s., 3D37
 of Hg in different chemical forms in, by a.a.s., 1D35
 of methadone in, by t.l.c., 4D53
 of methaqualone metabolites in, u.v. spectroph., 6D70
 of methotrexate and its metabolites in, by h.p.l.c., 6D122
 of 3-methoxytyramine in, by h.p.l.c., 6D202
 of 3-O-methyl-adrenaline and -noradrenaline in, by h.p.l.c., 6D202
 radial-compression liquid chrom., 2D198
 of methylamine in, by h.p.l.c. of trinitrobenzenesulphonyl deriv., 5D76
 of *D*-methylamphetamine in, by r.i.a., 1D77
 of methylformamide in, by g.c., 4D118
 of 1-methylimidazol-4-ylacetic acid in, by h.p.l.c., 4D204
 of methylmalonic acid in, by isotope dilution - g.l.c. of methyl ester - m.s., 4D152
 of 3-methylthiopropionate in, by g.l.c., 3D161
 of metoprolol and its metabolite in, by h.p.l.c., 3D102
 of mitomycin in, by h.p.l.c., 6D64
 of Mo in, comparison of spectroph. methods for, 6D42
 of morphine in, by t.l.c., 4D53
 of nalidixic acid and its 7-hydroxymethyl deriv. in, polarogr., 5D72
 of neuroleptic drugs in, by g.c. of acetyl deriv. - m.s., 3D91
 of Ni in, by a.a.s., oxime extractants for, 4D45
 of NO_2^- and NO_3^- in, enzymic - colorim., 5D21
 of nomifensine and its metabolites in, by t.l.c., 5A2C
 of noradrenaline in, by h.p.l.c., 6D199
 comparison of methods for, 6D198
 liquid chrom. - phosphorim., 3D203
 of norandrosterone in, by r.i.a., 6D67
 of obidoxime chloride in, polarogr. or spectroph., 1D101
 of oestrol in, by enzyme immunoassay, 4D177
 by hydrolysis using immobilised enzymes - 'boxcar' chrom., 1D141
 of oestrogens in, by h.p.l.c. of dansyl deriv., 6D187
 of opiates in, interference by pholcodine in immunoassay for, 6D52
 of orphenadrine in, by g.l.c., 4D112
 of oxalate in, by g.c., reduction of oxalogenesis in, 6D161
 by h.p.l.c. of 9-anthrylmethyl ester, 2D141
 by isotope dilution - indirect colorim., 1D122
 continuous-flow enzymic - spectroph., 2D143
 enzymic - colorim., 4D151
 enzymic - conductom., 5D102
 ion chrom., 2D142
 of oxmetidine and its metabolites in, comparison of h.p.l.c. methods for, 5D69
 of 6-oxo-deriv. of prostaglandin $F_{1\alpha}$ in, by h.p.l.c. - r.i.a., 1D126

Urine, determination—continued

- of oxprenolol and its metabolites in, by isotope dilution - h.p.l.c., 4D110
 of oxprenolol enantiomers in, by isotope dilution - h.p.l.c., 4D111
 of paraquat in, by h.p.l.c., 1D113
 of pefloxacin and its metabolites in, by h.p.l.c., 3D116
 of pentachlorophenol in, by g.l.c., 1D105
 of pentazocine in, by g.c. - m.s., 2D83
 of phenacycline and its analogues in, by g.c. - m.s., 5D52
 of phendimetrazine in, by g.l.c. of acetyl deriv., 6D104
 of phenol in, by g.l.c., 1D105
 of phenols in, by g.l.c., 4D132
 of PO_4^{3-} in, by enzymic - h.p.l.c. method, 6D39
 in presence of ioxaglate, 2D45
 of pipemidic acid in, by h.p.l.c., 6D117
 of Pt in, by n.a.a., 3D52
 of PAH and their metabolites in, by h.p.l.c., 6D135
 of polyoxyethylene glycols in, gel chrom., 5D82
 of post-gamma-globulin in, by r.i.a., 4D252
 of K in, potentiom., with ion-selective electrode, 6D24
 of primary or secondary amines in, by g.l.c. of pentafluorobenzoyl deriv., 4D52
 of prostaglandin E metabolite in, by g.c. of bismethoxime TMS ether deriv. of methyl ester - m.s., 2D152
 of prostaglandin $F_{2\alpha}$ and 6-oxoprostaglandin $F_{1\alpha}$ in, by g.c. - chemical-ionisation m.s., 4D69
 of protein in, comparison of methods for, 3D243
 comparison of spectroph. and turbidim. methods for, 6D229
 evaluation of benzethonium chloride method for, 2D242
 of pterins in, liquid chrom., 4D292
 of purine and pyrimidine deriv. in, by h.p.l.c., 6D262
 of pyridostigmine in, by enzymic inhibition - potentiom., 1D79
 of pyridoxal 5'-phosphate in, enzymic - radiom., 1D247
 of 4-pyridoxolactone in, fluorim., 4D299
 of retinol-binding protein in, immunonephelom., 6D246
 of Ro 03-8799 in, by h.p.l.c., 5D78
 of Si in, by a.a.s., 6D34
 of Na in, potentiom., with ion-selective electrode, 6D24
 of spermidine and spermine in, amperom., with enzyme electrode, 3D199
 of steroids in, by g.c. - m.s., 3D10
 by h.p.l.c., automated, 4D178
 of styrene metabolites in, by h.p.l.c., 6D132
 of sulphated 7 α -hydroxy bile acids in, enzymic - spectroph., 4D184
 of Δ^9 -tetrahydrocannabinol and its metabolites in, by g.c. - chemical-ionisation m.s., 5D42
 by h.p.l.c. - r.i.a., 4D74
 of thendylamine hydrochloride in, by h.p.l.c., 4G12
 of theophylline in, by h.p.l.c. or enzyme immunoassay, 4D56
 of theophylline and its metabolites in, by g.l.c. of propyl deriv. - m.s., 6D59
 of SCN^- in, by h.p.l.c., 1D39
 of $S_2O_3^{2-}$ in, by h.p.l.c., 6D40
 of tocanide enantiomers in, by g.l.c. of heptafluorobutyl deriv., 6D111
 of todrazoline in, sinusoidal a.c. polarogr., 4D113
 of triazolam and its metabolite in, by g.l.c. of TMS deriv., 6D92
 of N^4 -trideuteroacetylsulfamerazine and its metabolites in, by h.p.l.c. - m.s., 2D96
 of N^6 -trimethyl-lysine in, by h.p.l.c., 3D216
 of tripeleminamine hydrochloride in, by h.p.l.c., 4G12
 of uric acid in, by h.p.l.c., 5D191
 iodim., indicators for, 1D244
 of uroporphyrin in, liquid chrom. - spectroph., 5D176
 of vitamin U in, liquid chrom. - t.l.c. - g.l.c. of decomposition product, 4D305
 of xanthine in, by h.p.l.c., 4D290
 of zomepirac in, by h.p.l.c., 3D88
 extraction of catecholamine deriv. from, h.p.l.c. study of alumina procedure for, 2D195
 of oestrogens from, need for drying of final ether extracts in, 5D114
 of 17-oxosteroids from, comparison of methods for, 2D176
 of steroids from, with Sep-Pak C_{18} cartridges, 6D186
 identn. of benzodiazepine deriv. and meprobamate in, by t.l.c., 5D55
 of dopamine in, with coulom. dual-electrode detector, 3D204
 of maneab metabolites in, by t.l.c., with use of γ -irradiation technique, 6D140
 of volatile org. acids in, by g.c. of butyl esters - m.s., 6D159
 identn. and detmn. of disulfoton in, by g.c. - m.s., 2D106
 of doxycycline metabolite in, by h.p.l.c., 6D62
 of drugs in, by g.c. and g.c. - m.s., 5D24
 by g.c. - m.s. and t.l.c., 2D64
 of pencycuron metabolites in, by g.c. of methyl deriv. - m.s. and g.l.c., 1D110
 of stilboestrol in, by h.p.l.c. - g.c. of TMS deriv. - m.s., 2D98
 isolation of β_2 -microglobulin in, by isoelectric focusing, 3D255
 sepn. of aldosterone from other steroids in, by t.l.c., with use of inert markers, 1D145
 of amino-acids in, by t.l.c., 4D211
 of aromatic acids in, ion-exchange chrom., 5D103

Urine, separation—continued

- of oligosaccharides from mannosisidosis, liquid chrom., 6D151
- of org. acids in, by h.p.l.c., 1D118
- of proteins of, on Mono Q anion-exchange resin, 4D234
- sepn. and detmn. of bis-(2-ethylhexyl) phthalate and its metabolites in, by h.p.l.c., 4D134
- of coproporphyrins I and III in, by h.p.l.c., 2D262
- of 'middle molecule' b4-2 in, liquid chrom., 4D227
- sepn. and identn. of barbiturates in, by t.l.c., 4E38
- of peptides in, by h.p.l.c. of dimethylaminoazobenzenethiocarbonyl deriv. - field-desorption m.s., 2D226
- of phenolic acids in, by g.l.c. of trifluoroacetyl deriv. of butyl esters - m.s., 1D123

Urokinase, see under Enzymes, specific

- Uronic acids**, analysis of products of BH_4^- reduction of methylated, by methanolysis - h.p.l.c. - m.s., 1C24
- detmn., by methanolysis - h.p.l.c., 4D143
- in mucopolysaccharides, by g.l.c., 4D144

Uroporphyrinogen decarboxylase, see under Enzymes, specific**Uroporphyrinogen I synthase, see under Enzymes, specific****Uroporphyrinogen III cosynthetase, see under Enzymes, specific****Uroporphyrins**, detmn. in urine, by h.p.l.c., 3D267**liquid chrom. - spectroph.**, 5D176**sepn. of isomeric**, by h.p.l.c., 2D261**Urodeoxycholic acid**, detmn., potentiom., ion-selective electrode for, 1E12**in blood serum**, by r.i.a., 2D190

V

VP 16-213, see Etoposide**Valerian oil**, analysis, by g.c. - m.s. and h.p.l.c., 4C66**Valine**, detmn. of D-, in foods, by g.l.c. of *N*-pentafluoropropionyl deriv. of isopropyl ester, 1F7**Valproic acid**, detmn., by enzyme immunoassay, specificity of method for, 5D48**in blood serum**, by g.l.c., 2D75, 3D81**by g.l.c. without derivatisation**, 6D73**by h.p.l.c. of 4-bromophenacyl ester**, 1D66**liquid chrom. - m.s.**, 5J51**in human milk**, by g.l.c., 4D83**Vanadate**, detmn., by g.c. of *t*-butyldimethylsilyl deriv., 3B14**in presence of other anions**, by g.l.c. of *t*-butyldimethylsilyl deriv. - m.s., 2B15**Vanadium**, detection, by synchrotron-radiation XRF, 2J87**colour reaction for**, 2B12**detmn., amperom.**, 1B124, 4B130**by a.a.s., suppression of Cl^- interference in**, 4B15**by g.c. of 4,4'-(propane-1,2-diylidamino)bis-(1,1,1-trifluoropent-3-en-2-one) complex**, 1B12**by h.p.l.c. - spectroph.**, 1B125**by kinetic - fluorim. method**, 4B129**by kinetic - spectroph. method**, 4B124, 4B125**emission spectrom.**, effect of ethanol in, 6B13**using electrothermal carbon-cup vaporisation**, 4B16**polarogr.**, 1B124**spectroph.**, 1B13, 1B124, 1B126, 2B17, 2B115, 2B116, 3B109,**4B19, 4B126, 4B127, 5B121, 6B120****with extraction into molten naphthalene**, 4B132**in air-borne dust**, with laser micro-probe mass analyser, 3H12**in alloys**, by a.a.s., 4B128**in aluminium**, spectrogr., 2B53**in aluminium or aluminium alloys**, emission spectrom., 5B66**in biol. materials**, by XRF, 1F4**emission spectrom.**, 2D33**in biol. tissues**, emission spectrom., 2D35**in coal or fuel oil**, emission spectrom., with pre-concn. on poly-(dithiocarbamate) resin, 5B179**in graphite**, emission spectrom., with pre-concn. on chelating resin, 2B87**in liquid samples**, spectrogr., 2J108**in magnesium**, spectrogr., 3B44**in minerals, ores or rocks**, by a.a.s., 4B128**spectroph.**, 1B167**in nickel alloys**, amperom. or potentiom., 5B148**emission spectrom.**, 2B157**in petroleum or petroleum products**, by a.a.s., 2C61**by BSI a.a.s. method**, 4C55**by n.a.a.**, 3C73**by O combustion - spectroph.**, 1C69**in presence of Fe**, amperom. or potentiom., 4B130**in sea-water**, by n.a.a., with pre-concn. by colloidal flotation, 4H44**in sediments**, by acid extraction - a.a.s., 4H41**by n.a.a.**, 3H45**in silicates**, by lithium borate fusion - a.a.s., 4B10**ion-exchange chrom. - spectroph.**, 4B111**spectrogr.**, 1B107**in soil**, spectrogr., 2H64**Vanadium, determination—continued****in steel**, Auger-electron spectrom., 3B140**spectroph.**, 1B167**in tungsten**, by proton activation, 4B147**in urine**, emission spectrom., 2D36**in water**, by a.a.s., using stabilised-temp. platform furnace, 1H47**by a.e.s.**, 1H48**by PIXE**, 1H46**spectroph.**, 2H64**of V^{IV} or V^V** , coulom., 3B17**sepn. from Co**, ion-exchange chrom., 6B163**from Cu**, or from NaCl-containing electrolytes, ion-exchange chrom., 1J60**from lanthanoids**, paper chrom., 1B82**from Mo**, ion-exchange chrom., 6B137**from other elements**, by t.l.c., 1B23**from W**, by t.l.c., 6B110**from U**, by ion exchange, 1J61**ion-exchange chrom.**, 3B79**of V^{III} and V^{IV}** , magneto-paper electroph., 3B15**solvent extraction of**, with 3-methyl-1-phenyl-4-trifluoroacetylpyrazole-5-one - triethylphosphine oxide, 1H45**with tri-isoamyl phosphate**, 5B122**Vanadium, reagents for**, N_3^- - *N*-(4-chlorophenyl)-*N*-hydroxy-*N'*-*o*-tolyl-***p*-toluamide hydrochloride**, 5B121***N*-(2-benzimidazolylimino)benzamidoxime** - 1,10-phenanthroline, 4B19**1,5-bis-(5-chloro-2-hydroxyphenyl)-3-cyanoformazan** - polysorbate 80, 4B126**Chrome Azurol S**, 1B13**2-(3,5-dibromopyridylazo)-5-diethylaminophenol** - hydroxylamine, 2H64**5-diethylamino-2-(8-quinolylazo)phenol**, 1B125**EDTA** - riboflavin, 2B17***N*-hydroxy-*N*-*m*-tolyl-*N'*-phenylbenzamidine**, 1B126***N*-phenylcinnamohydroxamic acid - SCN^-** , 3B109**phthalomonohydroxamic acid K salt**, 2B115**poly(vinylpyrrolidone) - stilbazo**, 6B120**propane-1,2-diaminetetra-acetic acid**, 1B125**pyridoxal 2-pyridylhydrazone**, 2B116**4-(2-pyridylazo)resorcinol**, 4B111**quinolin-8-ol**, 4B132**salicylaldehyde thiosemicarbazone**, 4B127**salicylohydroxamic acid**, 1B167**thiophene-2-carboxaldehyde 2-quinolylhydrazone**, 2B12**Vanadium complexes**, with atropine and catechol, 5B120**with 1,5-bis-(5-chloro-2-hydroxyphenyl)-3-cyanoformazan**, 6A20**with bromobenzothiazolylazo-dyes**, 4A9**with catechol violet and hexadecyltrimethylammonium ions**, 5B9**with 1-(3-methyl-1*H*-pyrazol-5-ylazo)-2-naphthol**, spectroluminescence of, 3B108**Vanilla**, analysis of aroma compounds of, by h.p.l.c., 1F11**BSI specification for *Vanilla fragrans***, 5F11**Vanillic acid**, detmn. in pulp-mill effluent, by h.p.l.c., 3H102**identn. in plants**, by h.p.l.c., 5G4**Vanillin**, applications of C-isotope analysis in quality control of, review, 2F2**detmn. in pulp-mill effluent**, by h.p.l.c., 3H102**t.l.c. study of**, in presence of other aromatic aldehydes, 3C47**Vasopressin**, detmn. in brain tissue, by r.i.a., 3D227**—, arginine**, see *Argipressin***—, lysine**, see *Lypressin***Vegetable juices**, detmn. of ascorbic acid in, with reagent-impregnated**filter-paper**, 6F47**Vegetable oils**, see also names of specific oils**analysis of fatty acids in**, by h.p.l.c. of naphthacyl or phenacyl deriv., 1C28**of volatile**, by g.c., review, 1J67**BSI sampling techniques and instruments for**, 1C91**detection of adulteration of**, by g.c. of fatty acid methyl esters, 5F71**by g.l.c.**, 2F63**detmn. of As, Br, I and Se in**, by n.a.a., 4F68**of metals in hydrogenated**, by a.a.s., 4F67**of oligopolymers and oxidation products during thermal oxidation of**, by g.l.c. and gel chrom., 4F66**of sterols and tocopherols in**, by g.l.c., 1F55**of tocopherols in**, by h.p.l.c., 2F61**identn. of Anoxomer in i.r. spectroph.**, 5F18**sepn. of triglycerides in**, liquid chrom., 4F71**Vegetables**, see also *Legumes* and names of specific vegetables**analysis of flavonoids in**, by h.p.l.c., 3F7**of org. acids in lactic acid-fermented**, by h.p.l.c., 5F51**detection of organophosphorus pesticides in**, by t.l.c. with cholinesterase-inhibition detection, 1G33**detmn. of ascorbic acid and dehydroascorbic acid in**, by h.p.l.c., 2F32**of Cd in**, automated spectroph., 5F4**of Cd, Pb and Hg in**, spectroph., 3F36**of carbamate insecticides in**, by g.c., 6G31**of carbamate and organophosphorus pesticides in**, by t.l.c., 4G21**of α - and β -carotene in**, by h.p.l.c., 2F31, 5F53

Vegetables, determination—continued

- of dietary fibre in, rapid method for, 2F34
 of dithiocarbamate fungicides in, by h.p.l.c., 3G37
 of glyphosate and its metabolite in, by h.p.l.c. - fluorim., 1G27
 of guazatine triacetate in, by g.l.c., effect of guanidine hydrochloride on recovery in, 6G27
 of hydroxycinnamic acid deriv. in extracts of, by h.p.l.c., 5G5
 of I in, by catalytic - spectroph. method, 5F5
 of organochlorine and organophosphorus pesticides in, by g.l.c., 2G11
 of Roussin red methyl ester in pickled, liquid chrom. - g.l.c. - m.s., 5F56
 of 1,2,3,4-tetrahydro-6-hydroxy-1-methyl- β -carboline in, by g.c. of pentafluoropropionyl deriv. - m.s., 3F49
 of thiamine in, by g.l.c., 6F9
 of trichlorometaphos-3 in raw or canned, by t.l.c., 2G15
 evaluation of pollution effects on productivity of, 2A3C
 identn. and detmn. of dinitrophenol pesticides in, gel chrom. - g.l.c. of methyl ethers, 3G40
 sepn. of 5-(hydroxymethyl)-2-furaldehyde and patulin in extracts of, by h.p.l.c., 3F41
Verapamil, detmn. in blood serum, by h.p.l.c., 5D65
Veratrine, detmn., spectroph., 4E15
 extraction from aq. soln., 6E18
 (-)-**Verbenone**, detmn., by g.c. - circular dichroism spectrom., 6J68
Vermiculite, detmn. of elements in, with X-ray micro-probe, 1B194
Versalide, see *Naphthone*, 3'-ethyl-5',6',7',8'-tetrahydro-5',5',8',8'-tetramethyl-2'-aceto-
Vicine, detmn. in legumes, enzymic - spectroph., 3F40
Vigna mungo, assay of glutamine synthetase in leaves of, sample preparation for, 2D306
Vinblastine, detmn., by r.i.a., 5D28
Vinca minor, extraction of alkaloids from, 1E17
Vinclozolin, detmn. in must or wine, by h.p.l.c., 3G35
Vincristine sulphate, detmn., by h.p.l.c., 6E17
Vindesine, detmn., by r.i.a., 5D28
Vinpocetine, detmn. in biol. fluids, by g.c., 6A5C
Vinyl chloride, detmn., polarogr., 2C114, 4C12
 in air, 2A1C
 by g.l.c., 5H26
 in chloromethane, by BSI g.l.c. method, 5C11
 in products of oxychlorination of ethylene, by g.c., 3C18
 identn. and detmn. in air, by g.c., review, 5H25
Viscose rayon, detmn. of Cl⁻ in settling baths for, amperom., coulom. or potentiom., with ion-selective electrode, 1C107
Visnadine, detmn. in *Phloedicarpus sibiricus* roots, by g.l.c., 6D157
Vitamin A, see *Retinol*
Vitamin B₁, see *Thiamine*
Vitamin B₂, see *Riboflavin*
Vitamin B₆, see *Pyridoxine*
Vitamin B₁₂, see *Cobalamin*, *cyano-*
Vitamin C, see *Ascorbic acid*
Vitamin D₃, see *Ergocalciferol*
Vitamin D₃, see *Cholecalciferol*
Vitamin D compounds, detmn. in feeding-stuffs, collaborative study of h.p.l.c. method for, 6G20
Vitamin E, see *α -Tocopherol*
Vitamin K₁, see *Phylloquinone*
Vitamin K₃, see *Menaphthone*
Vitamin U, detmn. in blood, kidney tissue, liver tissue or urine, liquid chrom. - t.l.c. - g.l.c. of decomposition product, 4D305
Vitamins, analysis, by h.p.l.c., reviews, 4F3, 5F6
 detmn. in biol. materials or foods, by h.p.l.c., review, 6F7
 in foods, review, 3F1
 of fat-sol., by h.p.l.c., 4F11
Vitexin, identn. and detmn. in preparations of medicinal plants, comparison of methods for, 3E19
Volcanic ash, analysis of surfaces of, X-ray photoelectron spectrom., 3H10
Volcanic gases, sampling and analysis of acid and condensable, 6H8
Voltammetry, applications of, in analytical laboratory and in process control, 4A1C
 of thin-layer reticulated-vitreous-carbon electrode in, 6J164
 convolution techniques in, 6J167
 in pharmaceutical chemistry and pharmacology, review, 5E8
 miniature rotating-disc electrode for use in, 3J146
 pyrolytic-carbon film electrode for, 2J182
 micro-electrode assembly for *in vivo* and *in vitro* studies of biol. fluids by, 2J185
 microprocessor-controlled potentiostat for twin-electrode, 2J183
 scanning-potential stopped-rotation, 6J163
 —, **anodic-stripping**, comparison of methods for, 2B10
 dual coulom. - voltamm. cells for on-line, 6J168
 reliability of background-current subtraction in, 2J184
 system-control program and automatic data processing for differential pulse, 4J140
 —, **differential pulse**, comparison of carbon electrodes for use in, 6J165
 with medium exchange for analytes strongly adsorbed on electrode surfaces, 6J166
Voltaren, see *Diclofenac sodium*
Volumetric analysis, see *Titrimetry*
Vomitoxin, see *Nevalenol deoxy-*

W

- Warfarin**, detmn. in rodenticide baits, by h.p.l.c., 2G21
Waste gases, characterisation of polycyclic aromatic compounds in straw- or wood-combustion, liquid chrom. - g.c. - m.s., 1H37
 detmn. of CO₂ in flue, review of history of analysers for, 1A5
 of CO and methanethiol in cellulose- or paper-manufacture, by g.c., 2H12
 of carbonyl compounds in rendering emissions, by h.p.l.c. of 2,4-dinitrophenylhydrazones, 3H29
 of chlorinated dibenzo-*p*-dioxin and dibenzofuran deriv. in stack effluents from refuse-fired incinerator, by g.c. or g.c. - m.s., 2H36
 of N oxides in flue, calibration of instruments for, 6H11
 of N oxides in power-plant emissions, integrated sampling - analysis systems for, 4H13
 of polycyclic aromatic compounds in emissions from coal-fired stoves, by g.c. - m.s., 6H29
 sampling of asbestos in emissions from production processes, 2H22
 system for monitoring radioactivity in nuclear-power-station, 2H11
Waste solids, see also *Fly ash*; *Slag*
 analysis, by positive-ion - negative-ion chemical-ionisation m.s., 6H65
 of transuranic, programmable multi-timer for, 2B81
 detmn. of alkali-extractable org. matter in ash of, 5H101
 of elements in fly ash or scrubber sludge, by a.a.s., 6B188
 of Hg in samples from lead - zinc production, by a.a.s., 5B108
 of Pd in soln. of nuclear, emission spectrom., 3B160
 of Pd, Rh and Ru in precursor or final glass, by a.e.s. or a.e.s. - XRF, 6B78
 of Pu in large packages of, modular system for, 2B84
 of U in tailings, emission spectrom., 6B75
 of ²³⁵U in, control system for delayed-neutron interrogator for use in, 3B82
 leachability of heavy metals from incinerator ash, 2A2C
 sampling and detmn. of polychloro-dibenzo-*p*-dioxin and -dibenzofuran deriv. and their precursors in incineration of, 2A2C
 —, **sewage sludge**, analysis of org. priority pollutants in, by g.c. with selective detectors, 6A5C
 of powdered activated carbon in, thermogravim., 2A4C
 detmn. of aldrin and endrin in, by g.l.c., 2H109
 of aromatic nitro-compounds in, by g.c. - thermal energy analysis, 6H72
 of Cd, Cr, Cu, Pb and Ni in, by a.a.s., interferences in, 3H44
 of Cd, Cu, Pb and Ni in, by a.a.s., 1H86
 of C and N in, 5H64
 of cation-exchange capacity and exchangeable cations in, 4G7
 of Cr in, by flow-injection - spectroph. method, 2B128
 of elements in, by a.a.s., sample pre-treatment for, 4H89
 by XRF, 3H93
 emission spectrom., 2G2
 extraction method for, 1G8
 of heavy metals in, sampling and sample preparation for, review, 5H95
 of Pb in, by t.l.c. - remission spectroph., 2H96
 of nitrifying ability of activated, 4H88
 of organochlorine pesticides and PCB in, by h.p.l.c. - g.l.c., 3H94
 of S²⁻ in, iodim. or potentiom., 5H99
 identn. and detmn. of org. compounds in, by triple-quadrupole m.s., 4H68
 treatment of, 2A3C
Waste water, analysis, 1C87
 applications of AMICA automatic analyser in, 6J16
 evaluation of methods for, 3B11
 report of workshop discussion on instrumentation for, 6A6
 of alkoxylates in, 2A2C
 of dyes in textile-dyeing, by h.p.l.c., 2H104, 6H75
 of hazardous organics in coal-liquefaction, scheme for, 1H91
 of org. priority pollutants in, by g.c. with selective detectors, 6A5C
 of priority pollutants in, by g.c., 3H3
 of priority pollutants in paper-mill, by g.c. - m.s., 3H99
 analysis and treatment of industrial, review, 6H64
 composition, analysis and removal of metal ions from electroplating, review, 3H95
 detmn. of aliphatic acids in shale-oil-process, liquid chrom. - m.s., 5J51
 of aminoethyl phosphonothiolate in, ion-exchange chrom. - spectroph., 2H106
 of NH₄⁺, NO₃⁻ and PO₄³⁻ in, evaluation of automatic analyser for, 3H57
 of anionic surfactants in, by indirect a.a.s., 6H56
 of anionic and cationic surfactants in, by two-phase titration, 5C69
 of anions, metals and org. substances in oil-refining, review, 1H90
 of Sb in, spectroph., 4H91
 of As, Be, Cd, Cr, Pb, Ni and Ti in, emission spectrom., 1H88
 of benzidine and its 3,3'-dichloro-deriv. in, by h.p.l.c., 2H101
 of BOD₅ value of, 2H75
 of Cd, Cu and Zn in, spectroph., 1H60
 of Cd and Pb in, inverse voltamm., 6H66
 of C₂ to C₈ carboxylic acids in, by h.p.l.c., 4H93
 of COD of, effects of sample pre-treatment in, 6H70
 possible interferences in, 6H69
 of COD of treated effluent from night-soil-treatment plants, effect of N compounds in, 2H98

Waste water, determination—continued

- of chlorhexidine in, by g.c. of methyl - trifluoroacetyl deriv., 1H92
 of Cl compounds in pulp-mill bleaching, by g.c. or g.c. - m.s., 2H103
 of ClO_2 in, with rotating voltamm. membrane electrode, 2H69
 of CHCl_3 in pulp-mill, by g.c. - m.s., 3H100
 of chloropyrrolene citrate, thenyldiamine hydrochloride and tripelen-
 amine hydrochloride in, by h.p.l.c., 4G12
 of Cr in, potentiom., with ion-selective electrode, 6J145
 of Cr^{VI} in, by co-pptn. with PbSO_4 - a.a.s., 1H69
 of Cu in, spectroph., 1H58
 of Cu speciation in, d.c. and differential pulse polarogr., 6H37
 of Cu and Ni in, by automated h.p.l.c., 4H92
 of CN^- in, coulom., 3H55
 of elements in, by a.a.s., automated system for, 2H55
 by h.p.l.c. of chelate complexes, 2H43
 spectogr., 2J108
 of elements in oil-terminal, emission spectrom., 2H1
 of elements in suspended material in, by XRF with Beta-Solidmeter,
 5H52
 of formaldehyde in, by h.p.l.c. of dinitrophenylhydrazone or spec-
 troph., 3H97
 of formic and acetic acids in, by g.c. of *p*-bromophenacyl esters, 4H94
 of Au in electroplating, by a.a.s. with electrolytic pre-concn. on
 tungsten filament, 3H96
 of heavy metals in, sampling and sample preparation for, review,
 5H95
 voltamm., review, 5H96
 of insect-proofing agents in spent dye-bath liquors, by h.p.l.c., 3C103
 of isophorone and nitroaromatics in, by g.l.c., 2H100
 of Pb in accumulator-works, potentiom., with ion-selective electrode,
 1J192
 of Pb and Sn in high-salinity, by a.a.s. and a.e.s., 6H67
 of Mn in, by a.a.s., 6H68
 of Hg in, by isotope dilution, 6B57
 of NO_3^- in, potentiom., with ion-selective electrode, 5H98
 of N in, by hydrazine reduction - spectroph., 1H65
 of N compounds in, sample treatment for, 2H58
 of nitrosamines in, by g.c., 2H99
 of non-ionic surfactants in, by a.a.s., 6H74
 of organochlorine pesticides and PCB in, by g.c., 2H108
 of phenol in, by isotachopheresis, 6H71
 of phenols in, by h.p.l.c. of 4-aminoantipyrine deriv., 2H81
 of phenylmercury in, spectroph., 6H73
 of phosphates in, sample treatment for, 2H61
 of P in, by h.p.l.c. of molybdoheteropoly yellow complex, 4H90
 of PAH in, by g.l.c. or h.p.l.c., 5H103
 by h.p.l.c., 1H87
 by t.l.c. - fluorim., 6F55
 of sebacic acid in, 4H73
 of Se in, by XRF, 5H75
 of Ag in, by a.a.s., 5H97
 comparison of methods for, 2H95
 spectroph., 6B41
 of SO_4^{2-} in fertiliser-production, potentiom., with F^- -selective elec-
 trode, 3B113
 of Te in, by selective flotation - photom., 5H100
 of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin in, liquid chrom. - g.c. (or g.c.
 - m.s.), 2H107
 of thiosulphate-S in oxidised petroleum-processing, potentiom.,
 2H97
 of Sn in different chemical forms in, by ion exchange - spectogr.,
 5H102
 of trialkyl-lead compounds in, by n-butylation - g.c., 2H102
 of trichloroacetic acid in, by g.c. of methyl ester, 3H98
 of vanillin and related phenols in pulp-mill, by h.p.l.c., 3H102
 identn. of components of, by g.c. - m.s., evaluation of automated
 spectrum matching in, 2H94
 of org. compounds in, spectrodensitom. chrom., 3H92
 sampling of, report of seminar on continuous, 6A6
 sepn. of Cs, Ce and Co in, ion-exchange chrom., 5J67
 sepn. and detmn. of light aromatic hydrocarbons in, by g.l.c., 1H89
 simple test procedures for examination of industrial, 2H93
 treatment of, 2A3C
Water, detmn., by Karl Fischer method, pyridine-free reagents for, 3B20,
 3C3
 coulom., with modified Karl Fischer reagents, 4B25
 micro ovens for use in, 2J1
 in air, by g.c., low-temp. sampling technique for, 1J6
 in aldehydes or ketones, by Karl Fischer method, 1C14
 in amine oxides, semi-automated potentiom., 3C100
 in argon, coulom., 4B23
 in concrete, by low-energy γ -ray back-scattering, 3B181
 in dimethyl ether, by g.c., 6C17
 in dimethylacetamide, i.r. spectroph., 3C108
 in dioxan or tetrahydrofuran, polarim., 5C50
 in ethanol or propanol, spectroph., 5C13
 in fats or fatty oils, BSI entrainment method for, 1C92
 in foods, review, 3F1
 in gas mixtures, preparation of gas mixtures for calibration in, 4J13
 in gaseous, liquid or solid samples, apparatus for, 6B25

Water, determination—continued

- in methanol, by sonoluminescence method, 3C5
 in 1-methylpyrrolidinone, i.r. spectroph., 3C108
 in milk powder, with InfraAnalyzer 400, 6D37
 in org. liquids, spectroph., 3C4
 in org. solvents, by g.c., 1C13
 with high-resolution calorimeter, 4C7
 in phosphate glasses, by reduction method, 2B171
 in silage, by g.c., 6G15
 in small gas vol., by m.s., 2J138
 in sodium iodide crystals, 6B29
 in soil, calibration of neutron probes for, 4G8
 in solids, by Karl Fischer method, modified equation for calculations
 in, 4B24
 in starch, near-i.r. photoacoustic spectrom., 6F20
 in tobacco, automated, 1D4, 1D5
 in transformer oils, by m.s., 2C79
 in wheat, near-i.r. reflectance spectrom., 1G7
 testing and evaluation of ^3H - H_2O monitor, 6J6
Water, deuterated, detmn. of $^2\text{H}_2\text{O}$ in, by h.p.l.c., 4B26
Water, high-purity, detmn. of C in org. form in, by photo-oxidation - i.r.
 spectroph., 3H71
 of Cl^- in distilled, by isotope dilution - m.s., 3B24
 sepn. of constituents of deionised, by h.p.l.c., 2J32
Water, industrial, detmn. of Ba in boiler-feed, ion-exchange chrom. -
 a.e.s., 5H60
 of cyclohexylamine in, BSI spectroph. method for, 5B30
 of deposition characteristics of corrosive salts in steam-generating
 systems, by ion-beam analysis, 5A4C
 of long-chain fatty amines in, BSI spectroph. method for, 5B31
 of morpholine in, BSI spectroph. method for, 5B31
 of non-ionic surfactants in petroleum-industry, turbidim., 3C69
 of total Cl in power-station coolant, potentiom., with ion-selective
 electrode, 3H69
Water, natural, analysis, applications of AMICA automatic analyser in,
 6J16
 applications of g.c. in, review, 6J54
 electrochem.-potentiostatic measurement methods in, review,
 2H40
 flow-through methods for, review, 4H34
 polarogr. and voltamm. methods in, review, 4H36
 problems of sampling and sampling frequency in, review, 1H43
 problems of trace analysis in, review, 5A7
 quality control in, review, 3H40
 report of workshop discussion in instrumentation for, 6A6
 review, 4A2
 standards for instrumentation for, 4H31
 of acid fraction of extracts of samples from landfill sites, by g.c. - m.s.
 and liquid chrom. - m.s., 5H47
 of alkoxylates in, 2A2C
 of anions in, ion chrom., 5J64
 of fulvic acid fractions from, by cross-polarisation ^{13}C n.m.r. and
 fast-atom-bombardment m.s., 6H61
 of herbicides in, 2A2C
 of non-volatile org. compounds in, review, 6H50
 of org. compounds in, modified stripping technique for, 5H84
 of pesticides in, 3H104B
 of precipitation, by chromato - a.a.s., 2J74
 of rain, air-borne instrumentation for, 3H42
 of volatile org. compounds in, by gas stripping - g.c., 6H51
 analytical aspects of control of pollution of, 2H39
 characterisation of acidic precipitation, scheme for, 4H37
 chemical control of supplies for beverage manufacture, 6F53
 comparison of British requirements and E.E.C. directives for quality
 of, 2H38
 concn. of Ce, Th and U from, by co-pptn. with MnO_2 , 3H52
 of Cu and Ag from, on chelating fibrous sorbent, 5B39
 of elements from, by chelating ion exchange, 1H44
 by co-pptn. - flotation, 4H38
 by solvent extraction, 1H45
 on cellulose, 5H51
 of heavy metals from, on cellulose ion exchangers, review, 6H34
 of org. compounds from, automated system for, 2H77
 by extraction with supercritical-fluid CO_2 , 2H76
 of org. pollutants in, by evaporation at reduced pressure, 6H49
 of pollutants from, novel functional resins for, 2A2C
 of Th from, on reagent-loaded polyurethane foam, 3H53
 detection of anatoxin *a* in, by h.p.l.c., 2H90
 of heavy metals in, automated, review, 6H41
 of pesticides in, fluorim., 3H82
 of phenols in, by h.p.l.c., 6H54
 of polychlorinated phenolic methyl esters in, by g.c. (or liquid
 chrom.) - m.s., 2H83
 of SO_2 in, colour reaction for, 1H3
 detmn. of acetic acid in, in presence of phenol, potentiom., 4H72
 of alkylbenzenesulphonate in, spectroph., 2H87
 of Al in, differential pulse polarogr., 3H51
 emission spectrom., 2A2C
 fluorim., 4H51
 spectroph., 3H50

Water, natural, determination—continued

- of NH_4^+ in, evaluation of automatic analyser for, 3H57
- of ammonium-N in, automated colorim., 3G13
- of aniline in, by isotope dilution - g.l.c. - m.s., 1H80
- of anionic surfactants in, by indirect a.a.s., 6H56
- spectroph., 2H86
- of anions in acid rain, ion chrom., 1H56
- of Sb in, spectroph., 4H91
- of Sb^{III} and Sb^{V} in, by a.a.s., with sepn. and concn. on mercapto-cotton, 3H63
- of Sb in different chemical forms in, by a.a.s., with sepn. and concn. on 'thiol-cotton' fibre, 4H61
- of aromatic amines in, by h.p.l.c., with pre-concn. on Amberlite XAD-8 resin, 3H78
- of As in, by BSI spectroph. method, 4H58
- differential pulse cathodic-stripping voltamm., 2H63
- emission spectrom., 6H45
- oscillopolarogr., 1B121
- spectroph., 2H62, 4H59
- of As^{III} and As^{V} in, ion-exchange chrom. - a.a.s., 5H72
- of As in different chemical forms in, by a.a.s., with sepn. and concn. on 'thiol-cotton' fibre, 4H60, 4H61
- ion-exchange chrom. - a.a.s., 3H62
- of asbestos in, electron microsc., 2H73
- of aza-arenes in, by g.c. or g.c. - m.s., 3H90
- of benzophenone in, by g.c., 1H79
- of Be in, by a.a.s., 2H50
- of BOD₅ value of, 2H75
- of B in, fluorim. or spectroph., 3G11
- spectroph., 4H50
- of Br^- in, by pyrolysis - g.l.c., as bromocyclohexanol, 6H48
- of Br^- and other anions in, automated ion chrom., 5H83
- of Cd in, anodic-stripping voltamm., 4H45, 4H56
- by a.a.s., 3B52
- after flotation sepn., 4H49
- by automated flow-injection - potentiom. stripping method, 2H48
- by electro-pptn. - a.a.s., 3H49
- spectroph., 1H60, 6B54
- of Ca in, by flow-injection - spectroph. method, 1B53
- spectroph., 5H58
- of carbamate pesticides in, by h.p.l.c., 5G37
- of carbendazim in, polarogr., 5G31
- of carbosulfan and carbosulfan in, by g.c., 3G42
- of C in inorg. form dissolved in, extraction methods for, 6H43
- of C in org. form in, by photo-oxidation - i.r. spectroph., 3H71, 4H65
- of C in particulate in, 5H64
- of CO_2 in, by g.c., 3H46
- of CO_2 in ice, i.r. spectroph., with use of dry-extraction device, 4H54
- of COD of, continuous-flow system for, 4H35
- semi-micro permanganate method for, 2H74
- of ClO_3^- in, difference chronoamperom., 2H57
- of chlorthalimide in, spectroph., 6H63
- of Cl^- in, by pyrolysis - g.l.c., as chlorocyclohexanol, 6H48
- ion-exchange pptn. chrom., 3H65
- spectroph., 6B140
- of Cl^- and ClO^- in, potentiom., with Cl^- -selective electrode, 2B136
- of chlorinated hydrocarbons in, by g.l.c., 1H75
- of Cl in free form in, continuous-flow u.v. spectroph., 4H63
- of ClO_2 in, with rotating voltamm. membrane electrode, 2H69
- of Cl residuals in, by flow-injection - colorim. method, 5H81
- correction for CrO_4^{2-} interference in, 5H82
- comparison of instrumental methods for, 2H68
- of chlorophenols in, liquid chrom., with pre-concn. on copolymeric sorbent, 1H78
- photom., 3H76
- of chlorophyll in, fluorim., 3H82
- of chlorophyll *a* in, fluorim. or spectroph., 5D178
- of chlorophyll *c* in, delayed fluorim., 4H80
- of chlorothalonil in, by g.l.c. or t.l.c., 6G32
- of Cr in, by flow-injection - spectroph. method, 2B128
- differential pulse polarogr., 3F3
- review, 3H66
- of Cr^{VI} in, by co-pptn. with PbSO_4 - a.a.s., 1H69
- of Cr in different chemical forms in, by n.a.a., with pre-concn. by co-pptn., 5H77
- of Co in, by a.a.s., sepn. method for, 1J59
- spectroph., 4B19
- of condensed phosphates in, ion-exchange chrom., 4H71
- of Cu in, anodic-stripping voltamm., 4H45
- by a.a.s., 4B175
- sepn. method for, 1J59
- by automated flow-injection - potentiom. stripping method, 2H48
- by catalytic - spectroph. method, 3B27
- differential pulse polarogr., 3F3
- spectroph., 1B34, 1H58, 1H60, 4B19, 4H46
- with photochem. mineralisation, 5H57
- of Cu speciation in, d.c. and differential pulse polarogr., 6H37
- of *p*-cresol in streams, field technique for, 2H82
- of CN^- in, by g.c., as cyanohydrin, 6B86
- coulom., 3H55

Water, natural, determination—continued

- of DNA in, fluorim., 1H85
- of DNOC in, differential pulse polarogr., 3H81
- of diaryl phosphates in, by g.l.c., 6D142
- of diethyl malonate and diethyl succinate in, by sorbent-tube pre-concn. - g.c., 2H79
- of difenzoquat in, by h.p.l.c., 4H85
- of diflubenzuron in, by g.c., 6G35
- of dimethyl sulphide in, by g.c., 4H75
- of dinoseb in, differential pulse polarogr., 3H81
- of elements in, automated voltamm., 6H36
- by a.a.s., using stabilised-temp. platform furnace, 1H47
- with pre-concn. by co-pptn., 2H44
- by a.e.s., 1H48
- by h.p.l.c. of chelate complexes, 2H43
- by m.s. without pre-concn., 4H42
- by plasma-source m.s., 2J146
- by PIXE, 1H46
- by XRF, 4H43
- with pre-concn. by pptn. of diethyldithiocarbamates, 5H53
- comparison of methods for, 1J111
- emission spectrom., 2G2
- automated, 2H46
- detmn. of interference correction coeff. in, 6H35
- using computer-controlled monochromator, 2H47
- gel chrom. - electrochem., 5C26
- in presence of humic acids, anodic-stripping voltamm., 1H53
- spectroph., 2J108
- of elements in estuarine, by a.a.s., 1H50
- of elements in ground, with use of leaching technique, 1H49
- of elements in particulate in, by a.a.s., 5H54
- of elements in suspended material in, by XRF with Beta-Solidmeter, 5H52
- of F^- in, by flow-injection - potentiom. method, using ion-selective electrode, 1J13
- potentiom., dynamic response of ion-selective electrode for, 6H47
- with ion-selective electrode, complexing agents for use in, 3B127
- potentiom. or spectroph., 5H80
- spectroph., 5H79
- of glyphosate in, liquid chrom., 3G36
- of Au in, by a.a.s., with concn. by co-pptn. with Te, 4H47
- by n.a.a., with pre-concn. on active charcoal, 4H48
- of haloacetonitrile deriv. in, by g.c., 1H73
- of halocarbons in, by g.c., 2H78
- of halogenated org. compounds in, 6H53
- of hardness of, by semi-automated photom. titration, 5H59
- with AMICA automatic analyser, 6J17
- of herbicides in, by g.l.c., 5H92
- by t.l.c. - densitom., 6G26
- of hydrocarbons in, by open-circuit inert-gas stripping - g.c., 3H73
- of H_2O_2 in rain, interferences in chemiluminescence method for, 1H57
- of hydrophobic tracers in, by n.a.a., 3H74
- of 2-hydroxyethylidenebis(phosphonic acid) in, spectroph., 2H80
- of insect attractants in, by g.l.c., 6G39
- of I^- in, by catalytic - tensamm. method, 4B153
- by flow-injection - catalytic - spectroph. method, 2H70
- by pyrolysis - g.l.c., as iodocyclohexanol, 6H48
- of I in, by automated kinetic - potentiom. method, 2H71
- of ^{129}I in, by n.a.a., 1H71
- of Fe in, by catalytic - spectroph. method, 3B130
- spectroph., 2B142, 2H72, 3H70
- voltamm., 5B142
- of Pb in, anodic-stripping voltamm., 4H45, 4H56
- by a.a.s., extraction method for, 1H2
- by automated flow-injection - potentiom. stripping method, 2H48
- polarogr., 1H64
- of Pb in different chemical forms in, by g.c. of tetra-alkyl deriv. - a.a.s., 2H85
- of Pb in estuarine, anodic-stripping voltamm., 4H55
- of linear alkylbenzenesulphonates in, by g.l.c. of sulphonyl chloride deriv., 1H82
- of low-energy γ - and X-ray emitters in floc samples from, 3H43
- of Mg in, by flow-injection - spectroph. method, 5B49
- spectroph., 5H58
- of Mn in, by kinetic - fluorim. method, 1F5
- spectroph., 5B139
- of Hg in, a.e.s. study of exchange processes significant in, 2H53
- by a.a.s., 2H54
- continuous-flow system for, 4H35
- of migration of components of packaging materials into, use of correlations in, 1F13
- of Mo in, by a.a.s., with pre-concn. by ion exchange, 3H68
- by catalytic - spectroph. method, 1H70
- of 2-naphthol in, photom., 3H76
- of NO_3^- in, effects of anionic surfactants on response of ion-selective electrode for, 2H60
- evaluation of automatic analyser for, 3H57
- ion chrom., 3H58
- of NO_3^- and NO_2^- in, by flow-injection - spectroph. method, 6H44

Water, natural, determination of NO_3^- and NO_2^- in—continued

- by h.p.l.c., 4H57
- ion-interaction chrom., 2H59
- of NO_2^- in, spectroph., 5H66
- of N in, by hydrazine reduction - spectroph., 1H65
- of N dissolved in, by g.c., 3H46
- of N in particulate in, 5H64
- of N compounds in, sample treatment for, 2H58
- of nitrosamines in, differential pulse polarogr., 4H74
- of org. compounds in, 2A2C
- cross-contamination occurring during purge-and-trap concn. and sample storage for, 4H70
- of org. pollutants in humus-containing, 4H66
- of org. S compounds in, by head-space g.c., 6H3
- of organochlorine pesticides in, sorption capacities of graphitised carbon black used in, 4H86
- of oxime carbamate pesticides in, by h.p.l.c., 5G38
- of ^{18}O in atmospheric, by m.s., 1H14
- of $\delta^{18}\text{O}$ in, sample preparation for, 3H64
- of O dissolved in, by g.c., 3H46
- by quenching of after-glow of hydrophobic adsorbates, 1H67
- interference in N_3^- -modified Winkler method for, 5H73
- of Pd in, by a.a.s., with pre-concn. on thionalide-loaded silica gel, 4H64
- of paraquat in, by h.p.l.c., 5H93
- of permethrin in, by g.c., 6G35
- of phaeophytin c in, delayed fluorim., 4H80
- of phenol in, photom., 3H76
- in presence of acetic acid, potentiom., 4H72
- of phenols in, by h.p.l.c. of 4-aminoantipyrine deriv., 2H81
- of phenylhydrazine in, spectroph., 5H4
- of PO_4^{3-} in, by flow-injection - spectroph. method, 5H68
- by semi-differential electroanalysis, 3H59
- evaluation of automatic analyser for, 3H57
- of phosphates in, sample treatment for, 2H61
- of P in, spectroph., 3H60, 5H67
- of P in sol. reactive form in, effects of Mo-enhanced hydrolysis in, 5H70
- filtration artefacts in, 5H69
- of phthalates in, by hydrolysis - g.c., 2H84
- of polar compounds in, by h.p.l.c., with pre-concn. on pyrocarbon-modified silica, 1H77
- of PCB in, by chemical-ionisation m.s., 2H88
- of polyoxyethylene non-ionic surfactants in, spectroph., 6H57
- of quality of, field kit for, 5H44
- of ^{228}Ra in, by collection on impregnated acrylic fibres - γ -spectrom., 1H59
- of ^{228}Ra and ^{226}Ra in, sepn. scheme for, 3H48
- of radioactivity of particulate in, monitoring network for, 3H14
- of r.h. of air, dielectrom., instrument for, 6J5
- of sebacic acid in, 4H73
- of Se in, by XRF, 5H75
- emission spectrom., 6H45
- fluorim., 2H67
- of Se in particulate in, by XRF, 1H34
- of Se^{IV} and total Se in, fluorim., 4H62
- of Se in different chemical forms in, by a.a.s., with sepn. and concn. on 'thiol-cotton' fibre, 4H61
- of seston in, filters for, 2H⁶¹
- of SiO_2 in, by flow-injection - spectroph. methods, 1H62
- of Si in, differential pulse voltamm., 1B103
- of Ag in, by a.a.s., 5H97
- of solubility limits of org. priority pollutants in, by head-space g.c., 4H69
- of SO_4^{2-} in, by thermal decomposition - coulom., 5H74
- ion-exchange pptn. chrom., 3H65
- potentiom., with Pb^{2+} -selective electrode, 3H66
- spectroph., 2H66
- of S^{2-} in, field electrode method for, 2H65
- of S compounds in, spectroph., 1H68
- of Te in, polarogr. with pre-concn. on mercapto-cotton fibre, 5H76
- of Te in different chemical forms in, by a.a.s., with sepn. and concn. on 'thiol-cotton' fibre, 4H61
- of tetra-alkyl-lead compounds in, by a.a.s., 5H5
- of tetrachlorodibenzodioxin in, 3H1
- of ^{230}Th and ^{234}Th in, interferences in radiochem. method for, 6H42
- of Ti in, difference chronoamperom., 2H57
- polarogr., 2H56
- spectroph., 6D36
- of SSS-tributyl phosphorothioate in, by g.l.c., 5H94
- of triethylene glycol dimethacrylate in, a.c. polarogr., 2C119
- of trihalomethane deriv. in, by g.c., 1H73
- of un-ionised material in, colloidal index as additional parameter for, 3H41
- of U in, liquid chrom. - fluorim., 3B75
- of ^{235}U - ^{238}U ratio in, by ion exchange - n.a.a., 5H62
- of V in, spectroph., 2H64, 4B19
- of volatile compounds in, by g.l.c. - m.s., purge-and-trap method for, 3H72
- of volatile contaminants in, by head-space g.c., 2F51

Water, natural, determination—continued

- of Zn in, by a.a.s., 3B52
- polarogr., 4D29
- spectroph., 1H60
- of ^{90}Zr in suspended matter in, by scintillation counting, 5H65
- extraction and detmn. of elements in interstitial, from soil or rocks, 5H48
- fate and speciation of As compounds in, review, 3H61
- high-performance size-exclusion chrom. study of humus in, 4H82
- identn. of oil pollutants in, i.r. spectrom., 5H91
- of org. compounds leached from epoxy-resin-lined water mains in, by g.c. - m.s. and field-desorption m.s., 5H87
- of organophosphorus pesticides in, by g.l.c. - t.l.c., 4H87
- identn. and detmn. of org. compounds in, by triple-quadrupole m.s., 4H68
- interactions of Sn compounds with humates in, 1H74
- isolation of humic substances from, on diethylaminoethylcellulose, 4H81
- lectures on causes, effects and control of pollution of, 2A3
- monitoring of contaminants in, requirements for flexible programme for, 3H1
- of pollution of, review of use of i.r. and Raman spectroscopy in, 2H2
- of quality of, automated instrumentation for, 4H33
- photom. analyser for controlling composition of, 6H31
- recovery of org. pollutants from, by ligand exchange, 2A2C
- sampling of, report of seminar on continuous, 6A6
- sampling of cloud - axial-flow cyclone device for, 6H6
- of explosives from, evaluation of sorbents for, 5H88
- of ground, 2H37
- errors arising in use of piezometer screens and miniscreens in, 4H32
- of mineral flocs in, using Niskin bottles, 5H46
- sampling and analysis of colloidal particles in, 5H45
- sepn. of anions in, by h.p.l.c., 6J24
- sepn. and detmn. of fatty acids and phenylurea herbicides in, by h.p.l.c. - m.s., 3H80
- of HCH isomers in, by g.c. - m.s., 6H62
- of volatile and non-volatile organochlorine compounds in swimming-pool, 6H52
- sepn. and identn. of phenylurea herbicides in, by h.p.l.c. - m.s., 4H84
- study of ecosystem dynamics of, by optical measurements, 2A2C
- variations of trihalomethane concn. in, 2A2C
- , sea-, analysis of lipids in, by t.l.c. on Chromarods, 6D174
- of org. compounds in, review, 1H72
- characterisation of crude oils in, by g.c. - m.s. and fluorim., 5H90
- of org. compounds in fouling films deposited from, by pyrolysis - chemical-ionisation m.s., 4H67
- concn. of elements from, by flotation using two surfactants, 5H50
- comparison of quinolin-8-ol-bonded polymer supports for, 5H49
- detection of petroleum hydrocarbon contamination of, fluorim., 4H79
- detection and detmn. of metals in Kuwait, 2A2C
- detmn. of alkylmercury compounds in, by g.c. - emission spectrom., 3H89
- of Am in, by co-pptn. with oxalate - ion-exchange chrom. - α -spectrom., 1H61
- of ^{241}Am and Pu in, by ion exchange - electro-deposition - α -spectrom., 3G12
- of Sb in, by a.a.s. with pre-concn. by flotation, 3H85
- spectroph., 4H91
- of Sb, Bi, Cd, Cu and Pb in, anodic-stripping voltamm., 4H45
- of As, Mo, U and V in, by n.a.a., with pre-concn. by colloid flotation, 4H44
- of benzophenone in, by g.c., 1H79
- of Be in, by a.a.s., 2H50
- of ^{7}Be -to- ^{10}Be ratio in, with tandem accelerator, 2H51
- of B in, spectroph., 4H50
- of Cd in, anodic-stripping voltamm., 1H53
- by a.a.s., 2H52, 5H56
- of Cd, Cr, Cu, Fe, Pb, Ni and Zn in, by isotope dilution - m.s., 6H39
- of Cd, Cu and Pb in, anodic-stripping voltamm., preparation of sample containers for, 2H42
- of Cd, Cu, Pb and Zn in, by a.a.s., interferences in, 1H51
- of C in inorg. form in, radiom., 3H83
- of C in org. form in, by automated photo-oxidation - i.r.-spectroph. method, 3H88
- of CO_2 in, calibration of i.r. gas analyser for, 3H84
- of Cl residuals in, interferences in iodim. method for, 3H87
- of Cr in, by a.a.s., 6H46
- by isotope dilution - g.c. of trifluoroacetylacetone - m.s., 3H86
- of Co and Cu in, by a.a.s., sepn. method for, 1J59
- of Cu in, by co-pptn. with $\text{Zr}(\text{OH})_4$ - square-wave polarogr., 2H49
- of elements in, by a.a.s., 1H50, 5B20
- extraction method for, 2H45
- by a.e.s., 1H48
- by n.a.a., with pre-concn. by column electrolysis, 5H55
- electro-analytical techniques for, 6H38
- emission spectrom., 2B18, 3J82
- review, 4H39
- of fenvalerate in, by g.l.c., 2H92
- of free amino-acids in, by h.p.l.c. of phthalaldehyde deriv., 3H91

Water, sea-, determination—continued

- of I^- in, by catalytic - tensamm. method, 4B153
 - of I^- in, by automated kinetic - potentiom. method, 2H71
 - of Fe in, by catalytic - spectroph. method, 3B130
 - of Pb in, anodic-stripping voltamm., 1H53
 - by a.a.s., 1H63
 - of Pb and Sn in, by a.a.s. and a.e.s., 6H67
 - of Hg in, by a.a.s. with MAS-50A Mercury Analyser, 5H61
 - of Mo in, spectroph., 3B125
 - of K and Na in, stripping potentiom., 3B6
 - of SiO_2 in, by flow-injection - spectroph. methods, 1H62
 - of S compounds in, spectroph., 1H68
 - of Te in, polarogr., with pre-concn. on mercapto-cotton fibre, 5H76
 - of Th and U in, by n.a.a., with pre-concn. by co-pptn., 1B10
 - of tributyltin oxide in, differential pulse anodic-stripping voltamm., 5H89
 - of U in, potentiom., with UO_2^{2+} -selective electrode, 5H63
 - voltamm., 1B93
 - of Zn in, fluorim., 6H40
 - sampling of, rosette-mounted syringe device for, 4J1
 - sepn. of U from, by ion exchange, 1J61
 - on cellulose exchanger, 4H53
 - with triethylphosphine oxide, 4H52
- Water, tritiated**, detmn. of H^3HO in air, monitor for, 2H8
- H - 3H exchange between glass-fibre filters and**, 4B27
- Waterglass**, detmn. of Si in, titrim., 3B87
- Wax esters**, identn. and detmn. in sediments, by g.c., 1H76
- Waxes**, see also *Beeswax*
- analysis, German standard method for, 5C87
 - of plant-leaf, by h.p.l.c., 1D127
 - characterisation of hydrocarbon, by g.l.c., 5C88
- Weddellite**, i.r. spectrum of, 1D22
- Weighing**, automatic balance for monitoring changes in wt. of paint films, 6J4
- sensitivity of ultramicro-balances for, 4J2
 - system of linking microcomputer to balance, 3J2
- Welding fluxes**, detmn. of Al in, spectroph., 1B68
- Welding fume**, assessment of hazards from, review, 6A29
- detmn. of elements in, by XRF, 3H11
 - of H_2O -sol. and total Cr^{VI} in, inter-laboratory study of, 2B127
- Wheat**, analysis, use of standard samples for control in, 1G18
- of amino-acids in, preparation of hydrolysates for, 4F11
 - characterisation of bread-making quality of, near-i.r. reflectance spectrom., 1G6
 - detection of aflatoxins in, mini-column method for, 6F27
 - detmn. of ash elements, gluten and protein in, near-i.r. spectrom., 1F17
 - of elements in, by XRF, 6F25, 6G1
 - of germ of, in pasta products, immunonephelom., 5F32
 - of I in, losses during ashing in, 6F26
 - of N distribution in grains of, by deuterium activation, 1G4
 - of N, P and K in, by n.a.a., 5G2
 - of phytic acid in bran of, by h.p.l.c., 1F16
 - of protein and H_2O in, near-i.r. reflectance spectrom., 1G7
 - of Se in, by a.a.s., 4D37
 - of zeaxanthone in, by t.l.c., 5G9
 - sepn. of mycotoxins in *Alternaria*-contaminated, by t.l.c., 2F19
 - of proteins of, by h.p.l.c., 1G5
- Wheat flour**, see *Flour*
- Whewellite**, i.r. spectrum of, 1D22
- Whey**, detmn. of NO_3^- in powdered, by a.a.s., 3F34
- Whey proteins**, analysis, by h.p.l.c., 2F26
- detmn. in milk, by dye-binding method, 2F27
 - sepn., by gel filtration, 4F48
 - sepn. and detmn. in milk, gel electroph., 3F33
 - liquid chrom., 3F32
- Whisky**, analysis, by a.a.s., by g.l.c. and spectroph., 4F63
- detmn. of nitrosamines in, by g.l.c., 1F49
 - of phenols in, by g.l.c., as 2,4-dinitrophenyl ethers, 1F52
- White metal**, detmn. of Cu in, gravim., 5B34
- Wine**, see also *Sake*
- analysis, by fast-atom-bombardment and field-desorption m.s., 6J118
 - shelf-life of reagents used in, 2F59
 - of acids in, by isotachopheresis, 6F68
 - of flavonoids in, by h.p.l.c., review, 3F7
 - of volatile components of, by head-space g.c., 4F60
 - detmn. of amines in, with amino-acid auto-analyser, 2F4
 - of amino-acids in sparkling, by h.p.l.c. of dansyl deriv., 2F58
 - of biogenic amines in red, ion-exchange chrom., 4F9
 - of Ca, Mg, K and Na in, flame spectrom., 4F59
 - of Co, Cu, Mn, Ni and Zn in sherry-type, by a.a.s., wet-ashing method for, 5F66
 - of Cu, Fe, Pb, Mn and Zn in, by a.a.s., 4F58
 - of elements in, comparison of methods for, 1J111
 - of fungicides and their degradation product in, by h.p.l.c., 3G35
 - of Fe in, spectroph., 2B142
 - of lactic and malic acids in, by t.l.c., 3F51
 - of Mo in, comparison of spectroph. methods for, 6D42
 - of Ni speciation in, 1F3
 - of N compounds in, potentiom., 3F50
 - of quaternary ammonium compounds in, colorim., 1F51

Wine, determination—continued

- of SO_2 in head-space of, by g.c., 5F67
 - of 1,2,3,4-tetrahydro-6-hydroxy-1-methyl- β -carboline in, by g.c. of pentafluoropropionyl deriv. - m.s., 3F49
 - sepn. and detmn. of carbohydrates in, liquid chrom. - triple-pulse amperom., 5F68
 - of org. acids in, by h.p.l.c., 1F50
 - of organometallic complexes in, by selective sorption - differential pulse polarogr., 2F38
 - sepn. and identn. of benzoic and hydroxycinnamic acid deriv. in, by h.p.l.c., 5F69
- Wolframite**, detmn. of Sc in, spectroph., 4B72
- Wood**, analysis of organotin compounds in preservative-treated, by t.l.c. - densitom., 2C102
- of reducing sugars in hydrolysate of, liquid chrom. of dansyl deriv., 3D144
 - characterisation of polycyclic aromatic compounds in emissions from combustion of, liquid chrom. - g.c. - m.s., 1H37
 - detmn. of pentachlorophenol in chips of, by g.l.c. of acetate, 1C97
 - extraction of lignin from ground, 3J9
 - identn. and detmn. of isomeric chlorinated dibenzodioxin deriv. in emissions from combustion of, liquid chrom. - g.c. - m.s., 1H38
- Wood preservatives**, analysis of organotin compounds in, by t.l.c. - densitom., 2C102
- detmn. of pentachlorophenol in, by g.c. of free compound or of methyl deriv., 1C98
- Wood products**, detmn. of N-containing binding components in chip-board, 1C99
- Wood pulp**, see *Paper pulp*
- Wool**, characterisation of lubricants used in processing of, 1C105
- detmn. of cysteine and cystine in hydrolysates of keratin of, paper chrom., 1C104
 - of fenvalerate on cloth of, by g.l.c., 5C78
 - of insect-proofing agents in, by h.p.l.c., 3C103
 - differentiation from goat hair, electron microsc., 6C77

X

- Xanthate**, detmn., radiom., 2A10
- , **ethyl-**, detmn., spectroph., 5C7
- Xanthates**, detmn., amperom., 5G32
- Xanthine**, detmn. in blood plasma, erythrocytes or urine, by h.p.l.c., 4D290
 - in blood plasma or urine, by h.p.l.c., 6D262
- i.r. spectrum of, 1D22
- sepn. from other degradation products of adenine nucleotides, by t.l.c., 4D284
- , **3-methyl-**, detmn. in biol. fluids, by h.p.l.c., 5D29
 - in blood plasma or urine, by g.l.c. of propyl deriv., 6D59
- Xanthine derivatives**, detmn. in pharmaceutical preparations, phosphorim., 6E6
- Xanthohumol**, detmn. in malt or extracts, by t.l.c. - spectroph., 1F46
- Xanthomegnin**, detmn. in cereals or feeding-stuffs, by h.p.l.c., 5G21
- Xanthophylls**, sepn. from carotenes and from each other, by t.l.c., 6G6
 - from other plant pigments, by t.l.c., 6D256
- Xanthopterin**, detmn. in biol. tissues or urine, by h.p.l.c., 6D263
- Xanthopterin derivatives**, cyclic-voltamm. study of, 6D265
- Xanthosine**, sepn. from other degradation products of adenine nucleosides, by t.l.c., 4D284
- Xenon**, detmn. in fission gas from nuclear fuel, by m.s., 2B79
 - of ^{133}Xe in air, detector system for, 1H11
- X-ray absorption spectrometry**, energy-dispersive spectrometer for use in, 5J98
- X-ray diffractometry**, apparatus for, based on two-dimensional proportional chamber and two-circle goniometer, 2J93
 - applications in metal science of, review, 2B2
 - monochromatisation in, 2J94
 - X-ray guide tube for use in, 5J104
- m-Xylene**, sepn. from its isomers and from ethylbenzene, by g.l.c. 5C31
- o-Xylene**, sepn. from its isomers and from ethylbenzene, by g.l.c., 5C31
 - from related compounds, by g.l.c., 5C34
- , **4-bromo-**, sepn. from related compounds, by g.l.c., 5C34
- p-Xylene**, detmn. in aq. soln., by g.c., 1C47
- sepn. from its isomers and from ethylbenzene, by g.l.c., 5C31
- Xylenes**, analysis of products of manufacture of, by g.c., 2C47
 - detmn. in air, by g.l.c., 5H42
 - in air or aq. soln., by secondary-ion m.s., 1H36
 - in waste water, by g.l.c., 1H89
 - of metabolites of, in urine, by h.p.l.c., 3D135
 - differentiation, by resonance-enhanced two-photon ionisation, 1C40
 - sepn., evaluation of adsorbents for, 4C27
- 3,4-Xylenol**, sepn. from related compounds, by g.l.c., 5C34
- , **6-(5-methyl-1,3,4-thiadiazol-2-ylazo)-**, as analytical reagent, 2A16
 - as metallochromic indicator, 2A17
- Xylenols**, sepn., by g.l.c., 1C44, 5C38
- Xylitol**, analysis of soln. from production of, by g.l.c., 5C14
 - detmn., by g.l.c. of trifluoroacetylated O-(α)-menthylloxime deriv. - m.s., 5D90
 - in foods, by h.p.l.c. of benzoyl deriv., 5F7

- Xylometazoline hydrochloride**, detmn. in presence of its decomposition product, spectroph., 3E52
Xylonioline, detmn. in egg yolk or albumin, by g.l.c. - selected-ion monitoring, 3D9
Xylose, detmn., by g.c., 3D146
 in cereal-fibre hydrolysates, by h.p.l.c., 3G2
 in hydrolysates of neutral detergent fibre, by h.p.l.c., 6F4
 in plant-cell walls and mucilages, by h.p.l.c., 3D145
 in presence of fructose and ribose, by paired-ion h.p.l.c., 1D114
 of other monosaccharides, by methanolysis - h.p.l.c., 4D143
 in soln. from xylitol production, by g.l.c. of corresponding aldono-nitrile acetate, 5C14
 identn. in olives, paper chrom., 4F52
 sepn. from other aldoses, by h.p.l.c. of *N*-(*p*-methoxyphenyl)glycosylamines, 2C24
 from other sugars, by h.p.l.c., 2C23

Y

- Yeast**, analysis, applications of g.c. in, review, 6F58
 by chromato - a.a.s., 2J74
 of residual hydrocarbons in, by g.l.c., 5G24
 assay of β -D-fructofuranosidase in, 5D222
 detmn. of glycogen in, colorim. or spectroph., 1F45
 interpretation of pyrolysis mass spectra of, 1D7
Yogurt, detmn. of Cd in, by a.a.s., 4F5
 of α - and β -lactose in, by h.p.l.c., 2F29
Ytterbium, detmn. in presence of Se, by n.a.a., 3B117
 in silicates, spectrogr., 1B107
 in yttrium oxide, emission spectrom., 2B62
 sepn. from Gd, Lu, Tb and Tm, by g.s.c. of chloride or chloride - aluminium chloride complexes, 3B72
 solvent extraction of, with crown ethers, 3B66
Ytterbium oxide, detmn. of Dy in, by luminescence method, 4B86
Yttrium, detmn., amperom., 4B74
 by kinetic - spectroph. method, 3B64
 by XRF, 1B77
 fluorim., 1B79
 single-sweep deriv. polarogr., 6B67
 spectroph., 3B65
 in alloys, forced-flow liquid chrom. - spectroph., 4B177
 in minerals, ores or rocks, emission spectrom., 4B73
 in misch metal, by a.a.s., 1B80
 in Nd:Al Y garnet, electron microsc. - XRF, 3B178
 in silicates, by XRF, 4B110
 spectrogr., 1B107
 in zircon, emission spectrom., 2B106
 of Ce in, stripping voltamm., 1B86
 sepn. of ^{90}Y from ^{90}Sr , by ion exchange, 4J53
Yttrium, reagents for, arsenazo III, 4B177
 2,2'-bipyridyl - Chrome Azurol S - dodecylpyridinium chloride, 3B65
 2,2'-methyliminobis(quinolin-8-ol), 1B79
Yttrium complex, with Eriochrome cyanine R, 1B69
Yttrium oxide, detmn. of Cu in, spectroph., 1B81
 of heavy rare-earth metals in, extraction chrom. - spectrogr., 4B77
 of rare-earth-metal impurities in, emission spectrom., 2B62

Z

- Zearalanol**, detmn. in blood serum, by r.i.a., 6D136
Zearalenone, detection in cereals or feeding-stuffs, by g.l.c. of TMS deriv., 5G10
 detmn. in blood serum, by r.i.a., 6D136
 in maize, sorghum or wheat, by t.l.c., 5G9
Zein, sepn. from other cereal proteins, by h.p.l.c., 1G5
Zeolites, analysis of surfaces of, by fast-atom-bombardment m.s., 3J118
 desorption of org. bases from, 5B184
 detmn. of Si in, titrim., 3B87
Zephramine, detmn., spectroph., 6C65
 in presence of Na dodecylbenzenesulphonate, by two-phase titration, 6C68
Zinc, co-floation of, on metal hydroxides, 4B20
 concn. from $\text{Ca}(\text{NO}_3)_2$ medium, by selective sorption, 2B16
 from sea-water, on quinolin-8-ol-bonded polymer supports, 5H49
 from water, by chelating ion exchange, 1H44
 on cellulose, 5H51
 detection, by forward scattering in transverse magnetic field, 2J107
 by pptn. in viscous media, 3B18
 colour reaction for, 2B12
 reaction for, 5B21
 detmn., a.c. polarogr., 6J161
 amperom., 1B65
 by a.a.s., 2B43
 comparison of methods for, 3B11
 with automated sample pre-concn., 1B11
Zinc, determination—continued
 by flow-injection - amperom. method, 5B14
 by n.a.a., 1B9
 by XRF, 6B18
 gelatin-film calibration standard for, 1J98
 complexom., optimisation of back-titration method for, 3B50
 semi-automated, 4J16
 fluorim., 6H40
 polarogr., 4D29
 potentiom., with Cu^{2+} -selective electrode, 3B10
 radiom., 5B53
 selection of reference method for, 1B55
 spectroph., 2B40, 2B44, 3B51, 4A10
 effects of anions in, 2B41
 stripping chronopotentiom., 3J152
 stripping potentiom., automated, review, 4J141
 interference by Cu in, 3B53
 in air-borne dust, by a.a.s., digestion methods for, 4H8
 photom., 3H15
 in aluminium, spectrogr., 2B53
 in aluminium or aluminium alloys, emission spectrom., 5B66
 in aluminium alloys, by a.a.s., 3B60
 in ash, spectrosc., 3B16
 in barley, by a.a.s., sample preparation for, 6G2
 in biol. fluids, gel chrom. - emission spectrom., 2D41
 in biol. materials, by XRF, 1F4
 emission spectrom., 2D33
 matrix effects in, 1D20
 standards for use in, 2D34
 spectrogr., 5D12
 in biol. tissues, emission spectrom., 2D35
 comparison of sample-treatment procedures for, 6D15
 in blood serum, emission spectrom., effect of use of Vacutainer tubes in, 4D20
 in brain tissue, by isotope dilution - m.s., 6D28
 in brine, by a.a.s. or a.e.s., 4B152
 in cereals or flour, by XRF, 6F25
 in coal or fuel oil, emission spectrom., with pre-concn. on poly-(dithiocarbamate) resin, 5B179
 in copper alloys, by XRF, 6B38
 in cosmetics or dyes, comparison of methods for, 3C97
 in estuarine water, by a.a.s., 1H50
 in fatty acid still-bottom residues, by a.e.s., 2C34
 in fertilisers, comparison of methods for, 5G14
 emission spectrom., 2G5
 in fly ash reference material, 5A18
 in fresh-water particulate matter, by a.a.s., 5H54
 in hair, by photon activation, 1D19
 in human milk, by n.a.a., 6D21
 in industrial materials, anodic-stripping voltamm., 5B10
 in lead, emission spectrom., 2B100
 in liver tissue, by a.a.s., 3D18
 in lymph, by a.a.s., 4D24
 in magnesium alloys, spectroph., 2B38
 in marine samples, review, 4H39
 in milk powder, by PIXE, 6F34
 in minerals, ores or rocks, by XRF, 3J62
 effect of composition and particle size of sample in, 1B11
 in mixtures of organometallic compounds, by h.p.l.c. - a.e.s., 6J33
 in nervous tissue, by isotope dilution - m.s., 1D30
 in nickel alloys, by a.a.s., 5B157
 in orichalcum artefacts, by n.a.a., 6B39
 in pharmaceutical capsules, emission spectrom., 1E14
 in pharmaceutical raw materials and active compounds, voltamm., 3E1
 in plants, a.c. polarogr., 2D39
 by a.a.s., 6D17
 by XRF, 6G1
 certified reference materials for, 6D14
 in presence of Cd, by a.a.s. extraction method for, 3B52
 of Cu, by t.l.c. - radiom., 5B12
 voltamm., 2J183
 of Cu and Pd, by h.p.l.c. of porphyrin complexes, 2B8
 of other elements, by h.p.l.c. - spectroph., 5B13
 by n.a.a., 5B8
 by t.l.c. of anthrylglyoxal 4-diethylaminoanil complexes, 1B20
 of Na, by a.a.s., 1J120
 in sea-water, by a.a.s., extraction method for, 2H45
 interferences in, 1H51
 by isotope dilution - m.s., 6H39
 by n.a.a., with pre-concn. by column electrolysis, 5H55
 in sediments, by acid extraction - a.a.s., 4H41
 by a.a.s., 1H52
 in seminal plasma, spectroph., 1D31
 in sewage sludge, by XRF, 3H93
 in sherry-type wines, by a.a.s., wet-ashing method for, 5F66
 in silicates, by lithium borate fusion - a.a.s., 4B10
 by XRF, 4B110
 spectrogr., 1B107
 in single erythrocytes, by PIXE, 3D19

Zinc, determination—continued

- in soil, by sorption - XRF, 3G8
- emission spectrom., 2G2
- in soil air, stripping potentiom., 3G9
- in tin, by a.a.s., 5B101
- in uranium, emission spectrom., 1B95
- in uranium or its oxide, by a.a.s., 5B88
- in urine, emission spectrom., 2D36
- in water, by a.a.s., with pre-concn. by co-pptn., 2H44
 - by a.e.s., 1H48
 - by PIXE, 1H46
- by XRF, with pre-concn. by pptn. of diethyldithiocarbamate, 5H53
- in presence of humic acids, anodic-stripping voltamm., 1H53
- spectroph., 1H60
- in whisky, by a.a.s., 4F63
- in wine, by a.a.s., 4F58
- in workplace fumes, fluorim., 4H9
- in zinc oxide crystals, by spectroph. titration, 4B53
- in ZnS - Ag phosphors, by a.a.s., 4B214
- of Sb in, spectroph., by multiplying reaction of iodides, 1B123
- of Bi, Cd, Cu and Pb in, anodic-stripping voltamm., 4B58
- of Cd in, spectroph., 4B57
- of different chemical forms of, in beverages, by selective sorption - differential pulse polarogr., 2F38
- of distribution of, in blood-serum proteins, affinity chrom. - a.a.s., 4D28
- of Fe in, spectroph., 6B146
- of Hg in intermediates and wastes from production of, by a.a.s., 5B108
- of speciation of, in beverages or foods, review of sepn. procedures used for, 6F2
- of ^{66}Zn -to- ^{67}Zn ratio in blood plasma or faeces, using plasma ion source, 2B98
- extraction-chrom. study of, 6B21
- ion-exchange studies of, 4B6, 6B14, 6B30
- sepn. from Cd, by ion exchange, 3J42
 - by solvent extraction, 3B54
 - from Cd and other elements, by solvent extraction, 4B55
 - from Co, ion-exchange chrom., 6B163
 - from Cu and Mg, by selective pptn. of quinolin-8-ol complexes, 4B3
 - from Cu, Mo or Zr, liquid chrom., 2B16
 - from Cu and Ni, ion-exchange chrom., 3J41
 - from other elements, by t.l.c., 3B13
 - ion chrom., 1B16
 - ion-exchange chrom., 5B16
- solvent extraction of, as salicylate, with mesityl oxide, 6B51
- with aq. systems from organometallic - halide extracts, 1B14
- with benzoic acid - 1,10-phenanthroline in CHCl_3 , 4B54
- with decanoic acid in CHCl_3 , 5B23
- with 3-methyl-1-phenyl-4-trifluoroacetylpyrazolin-5-one - trioctylphosphine oxide, 1H45
- with sulphonamide chelating agents, 5B11
- with tetrachlorodithizonates, 1B17
- with xanthates in CHCl_3 , 2B44

Zinc, reagents for, benzyl 2-pyridyl ketone 2-quinolyldihydrazone, 6H40

- 1,5-bis(di-2-pyridylmethylene)thiocarbonyldihydrazone, 4A10
- 1-(6-bromobenzothiazol-2-ylazo)-2-naphthol, 1H60
- dithione, 3C97
- 8-hydroxy-7-(2-thiazolylazo)quinoline-5-sulphonic acid, 2B38
- 1-(5-methyl-1,3,4-thiadiazol-2-ylazo)-2-naphthol, 3B51
- 1-(2-pyridylazo)-2-naphthol, 1D31, 2B41
- 5,10,15,20-tetrakis-(5-sulphothiényl)porphine, 2B40
- $[\text{Hg}(\text{SCN})_4]^{2-}$, 3B18
- thioacetamide, 5B21
- thiophene-2-carboxaldehyde 2-quinolyldihydrazone, 2B12, 4H9
- xylene orange, 3H15

Zinc alloys, detmn. of Fe in, liquid chrom. - spectroph., 3B131

- of Pb in, by a.a.s., 3B96
- , **Zn - Cu**, detmn. of elements in, with electron micro-probe, correction methods for, 2B9
- , **Zn - Cu - Ti**, detmn. of elements in, with electron micro-probe, correction methods for, 2B9

Zinc chloride, detmn. of Bi, Cd, Cu and Pb in, anodic-stripping voltamm., 4B58

- of cationic contaminants in conc. soln. of, comparison of methods for, 1B56

Zinc complexes, with anthrapurpurin complexan, 5B52

- with 4-benzoyl-3-methyl-1-phenylpyrazoline-5-thione, 1A9
- with 1,5-bis-(5-chloro-2-hydroxyphenyl)-3-cyanoformazan, 6A20

Zinc ores, detmn. of Cd in, by thermal-neutron absorption, 6B53

- of Cd in Pb-containing, spectroph., 5B54
- of elements in concentrates of Pb-containing, by XRF, effect of composition and particle size of sample in, 1B111
- of In in concentrates from, polarogr., 2B59
- of Ag in, spectroph., 6B41

Zinc oxide, detmn. in air, photom., 3H15

- in suppositories, with Bi_2O_3 , by thermal methods, 1E7
- of Bi, Cd, Cu and Pb in, anodic-stripping voltamm., 4B58
- of Zn in semiconductor-grade crystals, by spectroph. titration, 4B53

Zinc selenide telluride, detmn. of composition of, by calculation after titrimetry, 3B177

- Zineb**, detection, colour reaction for, and detmn. in biol. materials, by t.l.c. - photom., 6D139

- detection and detmn. in foliage, by t.l.c. - spectroph., 1G30

- detmn., amperom., 5G32

- sepn. from other carbamates, by t.l.c., 1G36

- Ziram**, detection, colour reaction for, and detmn. in biol. materials, by t.l.c. - photom., 6D139

- sepn. from other carbamates, by t.l.c., 1G36

- Zircaloy**, detmn. of elements in, emission spectrom., 4B114

Zircon, detmn. of elements in, by PIXE, 2B3

- of Hf, Th, Y and Zr in, emission spectrom., and of U in, fluorim., 2B106

Zirconium, analysis of surface layer of oxide films on, X-ray photoelectron spectrom., 4B12

- concn. from AlCl_3 medium, by selective sorption, 2B16

- detmn., anodic-stripping voltamm., 4B96

- by n.a.a., with pre-concn. by co-pptn., 1B10

- by XRF, 6B18

- emission spectrom., using electrothermal carbon-cup vaporisation, 4B16

- photom., 5B110

- potentiom., with ZrO^{2+} -selective electrode, 6B108

- spectroph., 1B13, 2B101, 4A9

- in alloys, forced-flow liquid chrom. - spectroph., 4B177

- in gadolinium gallium oxide, spectroph., 4B216

- in glazes, photom., 5B183

- in hafnium, fluorim., 2B107

- in presence of Ce and La, by t.l.c. - spectroph., 6B110

- of Ce, Ti and U, ion-exchange chrom. - spectroph., 5B19

- of F^- , complexom., 6B109

- in rutile concentrates, spectrogr., 2B105

- in silicates, spectrogr., 1B107

- spectroph., with sample decomposition with molten NaOH, 5B97

- in soil, spectrogr., 6G10

- in steel, spectroph., 4B180

- in tungsten, by proton activation, 4B147

- in uranium, spectrogr., 6B76

- in water, by PIXE, 1H46

- in zircon, emission spectrom., 2B106

- of H distribution in, electrochem., 2B23

- of ^{90}Zr in suspended matter in water, by scintillation counting, 5H65

- sepn. from Al, Cd, Co, Cu and Zn, liquid chrom., 2B16

- from La, by t.l.c., 6B3

- from Ti, ion-exchange chrom., 5B109, 6B106, 6B107

- from U, by ion exchange, 1J61

- of isotopes of, ion-exchange chrom., 5B111

- solvent extraction of, with γ -irradiated sulphoxides or tributyl phosphate, 1B18

- with tributyl phosphate from HNO_3 soln., 3B84

Zirconium, reagents for, alizarin, 6B110

- arsenazo III, 4B177

- 2-(6-bromobenzothiazol-2-ylazo)-5-dimethylaminophenol and its analogue, 4A9

- chloranilic acid, 5B97

- Chrome Azurol S, 1B13

- 4-cyano-5-dihydroxyphenylazo-3-methylthiophene-2-carboxylic acid ethyl ester, 5B183

- 4-cyclohexyl-6-(2-pyridylazo)resorcinol, 5B110

- N-phenylanthranilic acid - Rhodamine B, 4B180

- Rhodamine B - salicylic acid, 2B107

- tiron, 5B19

- 1-(1,2,4-triazol-3-ylazo)-2-naphthol, 2B101

- Zirconium dioxide**, detmn. of coloured metallic impurities in, by oxidising reaction of α -aminophenol with H_2O_2 , 3B91

- Zirconium hydride**, detmn. of H in, by N carrier gas - h.f. hot-extraction method, 5B28

- Zomeprae**, detmn. in urine, by h.p.l.c., 3D88

- physico-chemical and analytical data for, 1E58

Author Index

- Aabakke, J., 2D85
Aaberg, A., 1C72
Aalbers, J. G. M., 3C112
Aanonsen, L., 3D108
Aaron, J. J., 1J137, 3E68, 3G43
Aarons, L., 6D116
Aaronsen, M. J., 1D107
Aasen, A. O., 6D287
Abad, M. A., 4D254
Abadia, V., 1E25
Abadie, F., 1D80
Abalain, J. H., 6D153
Aballe, M., 2B9
Abbiati, A., 5D58
Abbott, S. R., 4J38
Abdalla, A. F., 1F31
Abdalla, M. A., 4B115
Abdel-Akher, M., 6F21
Abdel-Ghani, N. T., 6B164
Abdel Kader, S. A., 4F64
Abdel-Khalek, M., 3E43
Abdel-Rahman, A. I., 6B164
Abdulla, S., 6E23
Abdullahi, G. L., 1D48
Abdullin, I. F., 1A20, 3B17
Abe, A., 3A15
Abe, K., 2H9
Abe, Mitsuo, 6J144
Abe, Miyako, 4D215
Abe, N., 2A12
Abe, M. H., 4D160
Abeleva, L. G., 4J103
Abell, P. I., 4B105
Aben, G. V. A., 5J72
Abernethy, M. H., 2D289
Abidi, S. L., 1C96
Abilahat, M., 4B30
Abo El-Khair, B. M., 6B22
Abo-Raya, S. H., 1F31
Abou-Donia, A., 6E19
Abou-Donia, M. B., 1E46
Abou El-Nour, F., 6G10
Aboul-Enein, H. Y., 4E58, 4E61
Abounassif, M. A., 6D128
Abou-Ouf, A. A., 2E60
Abou-Ouf, A. M., 6E38
Abraham, G. E., 2D12
Abraham, H. J., 2H24
Abrahamsson, L., 1D109, 4D92
Abramov, V. V., 2B175, 5B135
Abramson, F. P., 1J91
Abreau, C. M., 1D180
Abrosimova, N. V., 3C99
Abubakirov, N. K., 5E16
Abu-Elgheit, M. A., 3H79
Abusamra, A., 3D46
Abusteit, E. O., 4G15
Acebal, S. A., 4H55
Acharekar, M. A., 6B194
Achari, R., 6D204
Achari, R. G., 4C70
Achilli, M., 3D291
Achiwa, K., 2D305, 2E61
Acker, L., 3F19, 3F20, 3F23
Ackery, C. C., 6D125
Ackerman, S. A., 5F33
Ackermann, G., 2J48
Ackman, R. G., 2F62, 4F68, 6D174
Adachi, T., 1D147, 1D259, 3D260
Adam, J., 3G9
Adam, M., 4D226
Adam, R., 2F30
Adam, S., 2J57
Adamovich, L. P., 1B35
Adams, A. K., 3J54
Adams, D., 4D103
Adams, F., 1H34, 3C79, 3H12, 5H8, 6B93
Adams, F. C., 4C5
Adams, G. E., 3C76
Adams, J. D., 3D138
Adams, M. J., 1J143, 2J130, 6J92
Adams, R. E., 4C78
Adams, R. N., 4D193
Adams, T. T., 2B22
Adamsons, K., 1J133
Adan, N., 1D16
Adell, A., 3D215
Adeloju, S. B., 4D23
Adeva, P., 2B9
Adie, G., 1H5
Adlard, M. W., 2E20
Advenier, C., 6D115
Aeschliman, B., 5C3
Afghan, B. K., 3H104B
Afonin, V. P., 3J63
Agafonov, I. L., 3B95, 5C25, 6B127, 6C13, 6J10
Agapkina, G. I., 1B200, 2B174
Agarwal, N., 4D333
Agarwal, Y. K., 3E10
Agbakwura, O. P., 3E44
Agni, R. M., 1E55, 1E65, 3E18, 3E48, 3E58
Agrawal, R., 6B108
Agrawal, S., 5J66, 6B148, 6J144
Agrawal, V. P., 2D153
Agrawal, Y. K., 3B122
Agerdenbos, J., 1H55
Agullo, E., 5H79
Aharonson, N., 2G16
Ahern, K. M., 3D78
Ahluwalia, B., 1G3
Ahmad, I., 4H85, 5H93
Ahmad, N., 3C15
Ahmed, A. K. S., 3E51
Ahmed, A. S., 6B100
Ahmed, F. A., 1F31
Ahmed, J., 6B168
Ahmed, S. M., 5B155
Ahnfelt, N. O., 1C32, 4D92
Agingier, S., 5J100
Aikawa, H., 4C43
Aikens, J., 2D135
Aine, E., 6D283
Airaud, C. B., 5C72
Aishima, T., 1F37
Aizenshtein, E. M., 1C48
Ajami, A. M., 4D21
Akaiwa, H., 4B166
Akaiwa, S., 4J54
Akanuma, Y., 3D125
Akanya, J. N., 1J40
Akapongkul, U., 5B14
Akashi, J., 4D32
Akatsu, J., 4B101
Akerblom, M., 1G33
Akermanis, A., 4C82
Akesson, R., 4F7
Akguen, E., 4E5
Akhmadullina, A. G., 2H97
Akhmedov, R. M., 6B121
Akhmed'yanova, L., 4B131
Akiham, S., 3B21
Akilov, R., 1B109
Akimoto, K., 1J198, 4J140
Akimova, T. G., 4B79
Akitomo, N., 6J81
Akiyama, S., 2D254, 4B150
Akkerman, J. W. N., 5D6
Akopyan, O. A., 4E55, 5E38
Akselsson, K. R., 1J181
Aksoy, H. A., 6F48
Al-Abdul Razak, A., 2D223
Aladekomo, J. B., 2B170
Alad'in, A. A., 3C59
Al-Ali, H., 1J22
Alam, I. A., 1D204
Al-Ansari, A. A., 2D223
Alarcon, E. J., 3J136
Alarcon, O. M., 3D29
Alary, J., 4D41
Alavi, Z. I., 6F64
Alawi, M. A., 6G30
Al-Awqati, M. A., 2D223
Albaiges, J., 1H76, 2A2
Al-Bazi, S. J., 6B179
Albers, J. J., 3D181, 3D182
Albert, L., 1G34
Albertini, A., 6A4, 6D71, 6D73
Alberts, D. S., 5D174
Albery, W. J., 1J193, 2J171
Al-Biaty, I. A., 2B16
Al'bota, L. A., 4B66, 6C64
Albrecht, J., 6F23
Albrecht, P., 6H55
Albrechtova, I., 6F23
Albritton, D. L., 6H13
Albul, I. A., 6G39
Alcaniz-Baldellou, J. M., 1G10
Alcocer, J. A., 5J106
Alcock, N. J., 1J51, 3J26
Al-Dabbagh, S. A., 5D21
Alder, J. F., 4J45
Alderfer, J. L., 2D97
Alderson, T. St. J., 6D239
Alderweireldt, F. C., 6D260
Aldous, K. M., 1H84, 3C86
Aldridge, M., 5E15
Aldright, F., 1D26
Aleksperov, R. A., 1B44
Aleksandrova, G. I., 6B90
Aleksiev, A. A., 6G2
Aleksieva, A. Ya., 5B175
Aleksieva, N. N., 4B176
Aleksyuk, N. P., 3B7, 3B25
Alert, D., 6E23
Alexander, P. W., 4J20, 5B14
Alfassi, Z. B., 3B118, 4B34, 4D42, 4J120
Alford, E. S., 3F2
Alfredsson, G., 6D214
Algeier, R., 1C116
Algeo, J. D., 1C82
Al-Hakim, M. H. H., 6D63
Al-Hitt, I. K., 3D44
Ali, E., 4D177
Ali, E. A., 6B158
Ali, S. A., 6B81
Aliiev, A. M., 4E32
Alimarin, I. P., 2B156, 2B174, 4B179, 5B8
Alimonti, A., 5D12
Alishoev, V. R., 1J75, 2J64
Al-Jorani, T. K., 3J38
Alkalay, D., 1D76
Alkemade, C. T. J., 5J112
Alken, R. G., 6D77
Alksnis, A., 4C82
Allan, A. L., 5H79
Allan, D., 2D157
Allan, S. M., 1D66
Allawadhi, K. L., 2J85
Allemann, M., 3J122
Allen, E. H., 4D123
Allen, G. C., 6J113
Allen, J. C., 6D26
Allen, L. C., 2D253
Allen, T., 5A5
Allen, T. W., 4C61, 4C62
Allen-Davis, M., 2D218
Allender, W. J., 4D138
Aller, A. J., 4F43
Allievi, C., 5D95
Alling, C., 3D257
Allison, J., 3J124
Allison, L. A., 3D8
Allmendinger, H., 4C18
Allston, R. A., 6A22
Alm, S., 1E4
Al-Moslih, M. I., 3E70
Al-Nafea, M., 1J22
Alonso, J. R., 1D46
Alonso-Mateos, A., 4B113, 6B44, 6B119
Alsop, R. M., 4J49
Al-Tahan, F. J. O., 6D75
Altavista, M. C., 1D26
Althaus, J. R., 1D106, 3D137, 4G12
Althoff, P. H., 2D107
Al'tman, E. L., 3J72
Altmayer, B., 2G19
Altynov, V. A., 2B14, 3J66
Alvarez B., C., 6H7
Alvarez Bartolome, M. L., 2B47, 6B11
Alvarez-Builla, J., 1A13
Alvarez Jimenez, M. D., 3B151
Aly, A. I. M., 3B99
Alzamora E., O., 6B37
Amagaya, S., 3D189
Amalraj, M., 4B146
Amano, T., 4F21
Amato, A., 2E9
Ambert, J. P., 5D121
Ambler, J., 2D268
Ambrose, R. T., 2D205, 6D254
Ambujavalli, S., 4B57
Ameletto, G., 1F30
Amemiya, S., 3B2
Amer, M. M., 4E78
American Association for Clinical Chemistry, 6D277
Ames, B. N., 1D235, 3D278
Amet, Y., 6D153
Ametani, K., 4B214
Amin, D., 3C48, 6C19, 6F54
Amino, N., 2D224
Ammann, D., 3D26
Amores, D. A., 4D213
Amrakhov, T. I., 6B121
Amsler, U., 1D175
Amster, I. J., 1J171
An, C., 5G2
An, J., 5H76
An, W., 2D221
An, X., 1C38
Anacron, R. E., 1J141
Anazawa, I., 4C30
Anderegg, P., 2F44, 6F59, 6F67
Andermann, G., 3D110, 3E35
Anders, V., 4D300
Andersen, B. N., 1D198
Andersen, J. M., 5G4
Andersen, K., 5D195
Anderson, A., 4G10
Anderson, B. M., 6F61
Anderson, C. W., 1J106
Anderson, D. F., 3J131
Anderson, D. L., 5B194
Anderson, J. L., 3J71
Anderson, J. W., 6B75
Anderson, L. A., 4E9
Anderson, N. B., 3B165
Anderson, P. M., 5D232
Anderson, R. D., 2J122
Anderson, S., 1H90
Anderson, W. H., 2E10, 5D24
Andersson, K., 3H28
Andersson, L., 5F48
Andersson, R., 5F51
Anderzhanov, V. N., 5B114
Ando, K., 3G23
Ando, Takao, 5D227
Ando, Teichi, 5J35
Ando, Toshiaki, 4D231
Ando, Toshio, 3D315
Andre, J. C., 4E11
Andreae, M. O., 4H75
Andreev, G., 5H61
Andreev, I. A., 4H73
Andreev, L. V., 5G24
Andreev, P. A., 2B175, 5B135
Andreeva, I. Yu., 3B125

- Andreeva, T. B., 3B113
 Andres-Canadell, J., 1G10
 Andres Garcia, E., 2B47, 6B11
 Andrews, K. S., 1J28
 Andrews, P. A., 5D40, 6E30
 Andrianjafinony, J., 5C72
 Andrianov, A. M., 3B93
 Andrianova, M. E., 2J93
 Andrieu, X., 1J197
 Andrikanis, E. N., 4J103
 Andronikashvili, T. G., 3J53, 5J93
 Andruszkiewicz, R., 2D215
 Andruzzi, R., 1H54
 Andrysiak, A., 1C21
 Andzejewska, E., 3F12
 Anfalt, T., 5F48
 Angelico, F., 4D171
 Angelova, S., 1J11
 Anigbogu, V. C., 5G15
 Anikina, L. I., 5B169
 Anisimov, Yu. S., 2J93
 Anisimova, L. S., 3C16
 Anker, P., 3D26
 Anosova, V. I., 1B99
 Ansari, G. A. S., 6F16
 Anspach, G. L., 5H88
 Anstead, G. M., 3E69
 Ansol, G. R., 2H29
 Antczak-Kupracz, B., 4B80
 Anthony, F., 1D212
 Antipina, A. A., 3B168
 Antipova-Karataeva, I. I., 1B89
 Antokol'skaya, I. I., 1B27
 Antonelli, M. L., 4D186
 Antoni, G., 3J36, 5F32
 Antonini, C., 4D153
 Antonopoulos, C. A., 4D143
 Antonov, A. V., 1B86
 Antonova, A. V., 2C18
 Antonova, V. A., 1G2
 Antonovich, V. P., 2A20, 3B126
 Anufrienko, V. F., 3C72
 Anuse, M. A., 3B164, 5B160
 Aoki, K., 4H12
 Aoki, M., 3D140
 Aoki, T., 4H63
 Aouiti, T., 2D242
 Aoyama, K., 1B22
 Apffel, J. A., 1D90, 4J47
 Apostolov, D., 6B92
 Appel, B. R., 5H16
 Appel, W., 2D25
 Appellof, C. J., 2A22
 Appleton, J. M. H., 1J117, 2J99
 Apps, P., 1J87, 2J60
 Arai, D. K., 4C59
 Arai, T., 2J86
 Arakawa, N., 1F8
 Arakawa, S., 6D262
 Arakawa, Y., 4D196
 Araki, Y., 5D119, 6D200
 Arashidani, K., 4H25, 5H36
 Aratskova, A. A., 4E46, 6E43
 Araujo, M. C. U., 1J130
 Aravantinos, A. E., 6D19
 Arayashiki, H., 1H86
 Arbøskii, A. P., 5A21
 Arca, M., 4D171
 Arcena, D., 1D51
 Archer, B. G., 1D192
 Archer, T. E., 3G29
 Arden, J. W., 4B69
 Arendt, J., 2D203
 Arffmann, S., 1D148
 Arias Leon, J. J., 2B155, 5B149
 Arioso, K., 3B169
 Arikado, T., 6B55
 Arikani, P., 3B74
 Arinc, F., 3J65
 Aristova, V. P., 3F10
 Arita, H., 5J123
 Ariyoshi, Y., 3D317
 Arman, M., 3D124
 Armeanu, V., 5B85
 Armigliato, A., 1B208, 2B103
 Armstrong, D. W., 2C87, 2C110, 2D211
 Armstrong, N. R., 3J92
 Armstrong, P. W., 3D112
 Arn, H., 6C20
 Arnarp, J., 6D150
 Arnaud, P., 6D226
 Arnold, M. A., 1J194
 Arnott, B., 2D264
 Arns, W., 6C77
 Arnstadt, K. I., 3D188
 Arora, P. K., 6H22
 Arpino, P. J., 1J167, 5J50, 5J53
 Arrandale, R. F., 1J78
 Arribas Jimeno, S., 2B47, 6B11
 Arroyave, G., 6D266
 Arroyo, V., 6D221
 Arsac, F., 4D275
 Arsenijevic, L. S., 2E57
 Artigas, F., 1D152, 3D215
 Artiss, J. D., 2D163, 2D167, 2D168, 3D167, 6D44, 6D183, 6D228
 Artuyukhin, P. I., 2B180
 Aruga, R., 1C41
 Arustamyan, M. A., 3G18
 Arzouyan, C., 4J30
 Asabe, Y., 4C11
 Asada, H., 3D66
 Asai, R., 3D317
 Asai, Y., 6F12
 Asano, Makoto, 6B141
 Asano, Minoru, 2D106
 Asari, T. P. S., 6B135
 Ascalone, V., 5D37
 Aserin, A., 5C66, 6F15
 Ash, K. O., 3D207
 Asher, C. J., 6G4
 Ashirmatova, D. T., 5B72, 5B162
 Ashoor, S. H., 4F42, 5F60
 Ashraf, M., 5G1
 Aslett, L. H., 2J11
 Asnis, G. M., 6D58
 Asp, N. G., 6F3
 Assefa, M., 3B109
 Assenza, S. P., 3D274
 Assmann, G., 1D216, 4D167, 4D266
 Astaf'ev, P. N., 2B71
 Astruc, A., 1J197
 Astruc, M., 1J197
 Asuero, A. G., 6B165, 6B174
 Ata, M., 1D210
 Aten, C. F., 5G14
 Atkarskaya, A. B., 1B201
 Atkins, J., 5D215
 Atkins, T. M., 6C35
 Atkinson, T. C., 3D273
 Atsumi, H., 5B29
 Atsuya, I., 1D33, 1D42, 4B175
 Attia, E., 6F21
 Attygalle, A. B., 5D93
 Aubagnac, J. L., 3C26
 Aubert, C., 5D43, 6D92
 Aubertin, A. M., 5D161
 Aucouturier, P., 2D80
 Audigie, C., 3D319B
 Audunsson, G., 5H38
 Aue, W. A., 3J55
 Augenblick, K. B., 1J83
 Aulagner, G., 2D93
 Auld, D. S., 1D269
 Aumuller, G., 1D272
 Austen, K. F., 6D172
 Austin, R. B., 3J5
 Autio, K., 3G38, 6D140
 Avdeef, A., 2J168, 4A15
 Avdeeva, E. N., 3B38
 Aveland, M. I., 2D134
 Avila Novas, S., 2B142
 Avots, A., 3E33
 Aw, T. Y., 1D237
 Awal, M. A., 1G4
 Axelsen, N. H., 6D288
 Axelsson, M., 2D128, 4D170
 Axelsson, C. K., 6D288
 Axelsson, L., 3D307
 Axio-Fredriksson, U. B., 4D234
 Ayame, A., 5C79
 Aydogan, A., 4F25
 Ayers, T. A., 6H28
 Ayres, D. C., 1E51
 Ayubova, A. M., 3B123
 Azama, F., 2D293
 Azarez, J., 1H2, 3G11
 Azovtseva, L. N., 2B94
 Azukizawa, M., 2D232
 Azumi, T., 2H44
 Ba, B. B., 5D43
 Baadenhuijsen, H., 3J12
 Baars, L. G., 6D126
 Baaske, D. M., 3E55, 4E87
 Baba, H., 1B91
 Baba, N., 5B3
 Baba, S., 1B91
 Baba, T., 4F8
 Baba, Y., 5B5
 Babaina, T. V., 3B102
 Babarik, A. I., 6B166
 Babash, T. A., 5E17
 Babb, B. E., 2D260
 Babenko, A. S., 1B178
 Babhair, S., 4E58
 Babina, M. D., 5H33
 Babkin, V. A., 6D154
 Babu, Y., 6B76
 Baccan, N., 6B131
 Bach, T. C., 2D269
 Bacher, A., 5D194
 Bachhawat, B. K., 4D177
 Bachman, A. L., III, 4F28
 Bachrata, M., 5E27, 6E44
 Bachur, N. R., 5D40, 6E30
 Baciulienė, Z., 3B70
 Back, B., 1H4
 Bacon, J. R., 1D24
 Bacsy, E., 1A26
 Baczyk, S., 3D284
 Badenoch, J. L., 5D2
 Bader, P., 2D290
 Badretidinova, G. Z., 1A20, 3B17
 Baechmann, K., 1H8, 3B72, 6D29, 6H48
 Baer, G. R., 3D272
 Baerheim Svendsen, A., 2E72B, 5E14
 Baesemann, R., 4B205
 Bag, S. P., 1B167, 3B158
 Bagdasarov, K. N., 2B104
 Bagdasarov, Kh. S., 6B193
 Baggio, G., 6D185
 Bagon, D. A., 1H42
 Bagrii, O. K., 4E84
 Bahr, B., 5H56
 Bahreini-Toosi, M. H., 2J101
 Bahsoun, C., 3C93
 Baig, A. R., 1C84
 Baik, S. I., 4E55
 Bailey, C. A., 2C105
 Bailey, D. N., 4D91
 Bailey, N. M., 2C105
 Baillet, A., 4D182
 Baim, M. A., 2J73
 Bain, B., 4D303
 Bain, R., 3D121
 Baiocchi, C., 1C41, 4B40
 Bais, R., 2D143, 5D2
 Baiulescu, G. E., 4C75
 Bajardi, M. L., 2E70
 Bajo, S., 5C3
 Bakalov, V., 1E44
 Bakalova, L. M., 5B44
 Baker, D., 4F30
 Baker, G. B., 1D281B
 Baker, G. J., 5D109
 Baker, G. L., 3D209
 Baker, J. D., 1J183
 Baker, J. K., 6D268
 Baker, J. R., 1D214
 Baker, M. P., 3B81
 Baker, P. B., 2E41, 4E1
 Baker, P. J., 2D46
 Baker, P. R., 4D183
 Baker, R. W. R., 5D82
 Baker, W. L., 6D290
 Bakmut, N. G., 5E38
 Bakker, J. O., 5D134
 Bakos, P., 1E49
 Bal, T. S., 6D100
 Bala, C., 2J170, 3B26, 6B30
 Bala, R. M., 1D188
 Balaban, D. J., 5A30, 6J169
 Balakrishnan, I., 3C19
 Balasanmugam, K., 3E64
 Baldi, M., 2G11, 5G30
 Baldwin, M. A., 1J171, 3J117
 Baldwin, R. P., 3D69
 Baldwin, W. G., 2B11
 Baletskaya, L. G., 6H66
 Balfanz, E., 4H26
 Ball, P., 2D179
 Balla, J., 1J72, 2E45
 Ballard, R., 3H52
 Ballard, H., 4D289
 Ballard, J. M., 3H5
 Ballesteros, L., 4B163
 Ballestra, S., 1H61
 Balog, I. S., 3B180, 5B103
 Baloiu, L. M., 3H101, 6B112
 Balon, M., 2D56
 Balsa, C., 4D41
 Baltassat, P., 4D290
 Baltas, W., 2F5, 6F46
 Baltova, E., 4E44
 Baluja, R., 2F43
 Balyan, A. K., 2C117
 Balzer, H., 5D157
 Bambagiotti, A. M., 2C36
 Bamberg, J. R., 4D213
 Bamforth, C. W., 1F47
 Banachak, L. A., 3B45
 Bancher, E., 2D280, 3F11
 Bandaranyake, W. M., 3H88
 Bandyopadhyaya, A., 4D140
 Banerjee, M., 1E39
 Banerjee, S., 3E12
 Banes, A. J., 3D220
 Banigan, T. F., 1C123
 Banik, G., 3B1
 Banjanin, B., 1E62
 Banker, G. S., 1D98
 Banks, F. B., 1D129
 Bannister, S. J., 5D74
 Bannon, P., 2D76
 Bano, M., 1J65
 Bansal, A., 3B62
 Bansal, R. K., 4B37
 Bansho, K., 1H48
 Bao, M. S., 6J29
 Baracco, L., 4H52
 Barad, U. G., 1E57
 Barakat, N., 6G10
 Baranczyk-Muzma, A., 5D212
 Baranov, S. V., 1J120
 Baranovskaya, L. V., 1B67
 Baraona, E., 5D164
 Barasoain, F. F., 4G22
 Baratchart, M., 3C113
 Barbalas, M. P., 1J171, 3E21
 Barbas Arribas, M. C., 3B10
 Barber, R. G., 6G13
 Barber, W. E., 4B17
 Barbet, J., 5D28
 Barbier, F., 2D92
 Barbier, Y., 3D47
 Barbosa, J., 1A14
 Barcelon, M. de los A., 4D212
 Barcelona, M. J., 5H73
 Barchas, J. D., 3J112, 5J52
 Barcic, G., 6E52
 Barcuchova, A., 2E2
 Bardelli, F., 1D266
 Bardet, J. I., 4D210
 Bardin, V. V., 3B113, 5B124
 Bardin-Shtein, S. M., 2H57
 Bareggi, S. R., 3D58
 Bares, M., 5D155, 5H98
 Bariac, T., 1H14
 Barkenbus, B. D., 2H26
 Barker, H. M., 2D108
 Barker, P. E., 4J49, 5J62
 Barker, P. G., 2A31B
 Barlow, J. J., 2D282
 Barlow, J. W., 4D224
 Barlow, S. M., 2F62
 Barnard, E. L., 1D103
 Barnard, G. J., 4D222
 Barnard, W. R., 4H75
 Barnes, L. D., 2J7

- Barnes, R. M., 1J128, 2B54, 2B87, 2C34, 2D36, 2D37, 2D58, 2H102, 5B179, 6B60
 Barnett, D., 5F67
 Barnett, N. W., 5D18
 Barnett, W., 1A28
 Barofsky, D. F., 3D13
 Baron, M., 4D314
 Barr, A., 2D10
 Barr, B. B., 4D278
 Barrett, A. J., 2D125
 Barrett, P., 1A28, 6H45
 Barriere, S. L., 5D38
 Barrios, G. C., 3J136
 Barron, P., 2J171
 Barrow, S. E., 2D149
 Barry, E. F., 4J69, 5J87
 Barry, T., 5F19
 Bartak, D. E., 5C26
 Bartels, H., 6J16, 6J17
 Bartha, L., 6B113
 Bartl, K., 4D266
 Bartl, P., 1C79
 Bartle, K. D., 6C60
 Bartlett, J. M., 1D89
 Bartolo, R. G., 5E39
 Barton, F. E., II, 6G18
 Bartos, J., 3G5
 Bartu, V., 5J90, 6J63
 Bartusz, D. B., 1B147
 Barua, S., 5F44
 Barza, M., 6D119
 Basargin, N. N., 1B68
 Baselt, R. C., 4D78
 Bashir, W. A., 3C34
 Basile, L. J., 1J179B
 Basili, N., 1J62
 Basoli, A., 5D36
 Basov, V. N., 2C89
 Basova, E. M., 2B138
 Basselier, J. J., 1J49, 2D91
 Basset, G., 1D275
 Bastin, J., 1B55
 Bata, A., 5G10
 Bateh, R. P., 6E6, 6E50
 Bateja, S., 5C42
 Batley, G. E., 6H38
 Batley, M., 2C24
 Batra, O. P., 2J85
 Batsberg, W., 6F24
 Battaglia, R., 6F40, 6F72
 Batten, B., 5H9
 Battesti, J. P., 1D275
 Battiste, D. R., 4C50
 Battistelli, S., 3D282, 3D283
 Battistoni, P., 1J59
 Batoryshina, F. M., 1B36
 Baudisch, H., 4F23
 Baudner, S., 6F43
 Baudo, R., 5H54
 Baudot, P., 4E11
 Bauduin, G., 4H71
 Bauer, D., 2H7
 Bauer, E., 3B154
 Bauer, H. M., 3C81
 Bauer, M., 4E68
 Bauer, P., 3B162
 Bauer, S., 5A14
 Baumann, G., 6B109
 Baumann, P., 2D84
 Baumgaertner, F., 3J91
 Baumgartner, E., 6F45
 Baumgartner, W. A., 2D66
 Baumrucker, C. R., 3D250
 Baust, J. G., 5C17, 5F26
 Bautista, J. M., 6B174
 Bautista Rodriguez, J. M., 2B142
 Baveja, A. K., 1B137
 Bax, A., 6J109
 Baxter, C. F., 2D237
 Baxter, J. A., 5G20
 Bayart, H., 5J48, 6J36
 Bayer, E., 2J55, 4C18, 6D211
 Bayer, M. F., 6D219
 Baylis, F. P., 6D120
 Baylocq, D., 4D182
 Baynes, J. W., 6D248
 Bayona, J. M., 1H76
 Bayse, D. D., 2D259
 Bayunov, P. A., 1J118
 Bazel, Ya. R., 3B180, 5B103
 Bazhenova, T. V., 6D168
 Bazylak, G., 4J64
 Bazyl'chik, V. V., 5C49
 Beardsley, A. M., 1D181
 Beasley, M. W., 6E22
 Beattie, D. S., 5D208
 Beaudoin, P., 1B202
 Beaudonnet, A., 6D240
 Beaudry, J., 5D174
 Beaugrand, C., 3J123
 Beaumont, J. L., 1D193
 Beaupre, P. W., 3B39, 3B56, 3B159, 3B163
 Beaver, L. A., 4J51
 Becheiraz, M., 6F13
 Becher, G., 1H37, 6D135
 Bechgard, E., 4D87
 Beck, E., 1J152
 Beck, E. A., 5D160
 Beck, O., 2D32, 3F48, 3F49
 Becker, H., 5E43
 Becker, H. D., 3D230
 Becker, R. W., 4D198
 Beckner, C. F., 4J113
 Bedard, P., 3J21
 Bedareva, L. V., 3J156
 Bednas, M. E., 3H86
 Beduerftig, C., 6C47, 6C48
 Beebe, J. M., 2F29
 Beechey, R. B., 5C40
 Beenen, G. J., 6J100
 Beer, F., 3B24
 Beer, M., 6B176
 Beers, P. C., 2D156
 Beezer, A. E., 4E21
 Beg, A. E., 2E58
 Beger, J., 6B176
 Begunov, G. A., 3C29
 Beier, R. C., 5D96
 Beightol, L. A., 3D89
 Beiko, O. A., 1C62
 Beisenbekov, A. S., 4E32
 Beitz, L., 6J77
 Beke, R. P., 2D92
 Bekemeier, H., 3D178
 Bekk, P., 5B170
 Bekov, G. I., 1B109
 Bekyarov, G., 5J109
 Belal, F., 2E60, 6H38
 Belarra, M. A., 3A12
 Belchamber, R. M., 2J113, 2J119, 6A25
 Belfrage, P., 3D242
 Belikov, V. G., 1E1, 6E42
 Belin, B., 1E58
 Belisle, J., 2D103
 Bell, A. E., 3D13
 Bell, J. P., 1J3
 Bell, W. L., 4F27
 Bellatti, M., 1F20
 Belleau, G., 5F61
 Bellenger, P., 4E86
 Belliardo, F., 3D139
 Belling, G. B., 6F26
 Bellinger, E. G., 6J159
 Bellini, A. M., 5D54
 Bellomo, A., 1B176, 5H59
 Bellotti, V., 6D65
 Belly, M., 3C104
 Belousov, G. E., 3J77
 Belousov, V. I., 4J103
 Belousov, Yu. Ya., 3C100
 Belousova, G. M., 4E42
 Belousova, T. A., 3C108
 Beltis, K. J., 5H27
 Beltle, W., 4J55
 Belton, P. S., 6F20
 Belton, T., 3H61, 3H62
 Belyaev, Y. I., 2B43
 Belyaeva, E. M., 1A15
 Belyakov, M. A., 5B114
 Belyakov, V. A., 1B111
 Belyavskaya, T. A., 1B184, 3G8
 Belz, H. H., 4J32
 Benadikova, H., 2J36
 Benakis, A., 2D87
 Bender, G. P., 1B107
 Benderson, J. M., 3D181, 3D182
 Bendt, J. S., 3D185
 Benecke, I., 4C4
 Benedetti, T. J., 2D160
 Beneking, M., 5D33
 Benes, L., 6E45
 Benetti, P., 2J117
 Benfenati, E., 5D58
 Benjamin, E. J., 1E42, 3E4
 Bennett, D., 2J31
 Bennett, E. F., 4J123
 Bennett, S., 6D175
 Bennick, A., 6D231
 Benninghoven, A., 4D300, 5A3
 Benoit, F. M., 4D9
 Benraad, T. J., 1D157
 Bens, G. A., 6E28
 Benson, D., 5B188
 Benton, L. D., 4J83
 Benzel, L. V., 1D53, 2E13
 Benzoni, D., 1D126
 Beppu, T., 3D196
 Berak, J. M., 4C27
 Beranger, G., 1B132
 Bercaru, A. M., 3C58, 6H73
 Berchtold, M. W., 3D248
 Berczy, J., 4H6
 Berdikov, V. V., 6B71
 Berek, D., 1D57
 Berenguer, V., 1C76, 1C83
 Berenson, G. S., 2D126, 3D183
 Berenyi, D., 3B59
 Berezhnoi, A. A., 2B172
 Berezhnoi, A. I., 4B212
 Berezin, B. B., 5D136
 Berezkin, V. G., 1J73, 1J75, 1J80, 2J64, 3A24, 3J53, 4J60, 5J18, 5J19, 5J93
 Berg, W. W., 6H18
 Bergamo, N., 1D59
 Bergdahl, B., 4D60
 Berger, D., 2D112
 Berger, Dieter, 5C8
 Berger, M., 5D183
 Berger, P. J., 3D134
 Berger, R., 3D16
 Bergert, K. D., 2C2, 3D135
 Bergey, C., 2B69
 Bergh, M. L. E., 6D150
 Berg-Nielsen, K., 2F12
 Bergquist, S., 1D85, 3D98
 Bergqvist, Y., 3D117
 Berk, P. D., 4D316
 Berlyne, G. M., 6D34
 Berman, S. S., 2C44, 2J104, 3H86, 5H49, 6B56, 6B101, 6H46
 Bermejo, J., 4C38
 Bermejo Barrera, P., 4F5
 Bermejo Martinez, F., 4F5
 Bermond, A., 4H76
 Bernal, J. L., 4F43, 4F58, 4F59, 5B59
 Bernard, A., 1D203
 Bernard, S., 1D14, 1D255
 Berner, A. I., 1B207
 Bernhauer, H., 6F43
 Berni, R. J., 2C107
 Bernier, A., 3H36
 Bernstein, K., 1G7
 Berridge, J. C., 1A24, 1J47
 Berrois-Sagredo, E. A., 4E16
 Berrow, M. L., 1G8, 1G9
 Berry, S. C., 6D81
 Berry, T., 1B33
 Bershtein, I. Ya., 3J68
 Berthod, A., 4E88
 Berthold, K. P., 2D34
 Berthou, F., 6D153
 Berti, M., 1B208, 3B89
 Bertocchi, G., 5D98
 Bertrand, P. A., 3J138
 Bertsch, J. A., 2D38
 Bertsch, W., 1J87, 2J53, 2J60, 4J65, 5J81
 Bertuccioli, M., 4F60
 Berzas Nevado, J. J., 4B36, 5B164
 Besana, G. P., 1E67
 Besch, E. L., 1D144
 Beschke, K., 4D48
 Beskova, G. S., 3B101
 Besozzi, M., 4D274
 Bessard, G., 1D222
 Bessiere, J., 1D224
 Bessiere, J. M., 4H71
 Bessonova, T. I., 2H12
 Best, H. T., 2C86
 Bestiuc, I., 6C38, 6C85
 Bethea, R. M., 6H58
 Betowski, L. D., 3H5, 6H65
 Betschart, A. A., 1F16
 Betteridge, D., 2B154, 6A25
 Bettero, A., 6D109
 Betti, A., 2H81, 5B93
 Bettin, K. M., 1D56
 Bettinelli, M., 2B168, 3H6, 4B10
 Betts, J. W., 3C90
 Betz, G., 5D113
 Betz, M., 2H50
 Beurton, G., 6B61
 Beusen, J. M., 6B93
 Bever, T. W., 3C101
 Beveridge, J. L., 3G28
 Beyer, C., 6D196
 Beyer, J. O., 2J72
 Beyer, R. E., 4D242
 Beyer, W., 1D27, 2J35, 4D83
 Bezakova, Z., 5E27, 6E44
 Bezek, S., 6D99
 Bezuglyi, V. D., 5E35, 6E48
 Bezur, L., 5B50, 6J95
 Bezzubov, A. A., 4D305
 Bhandari, C. S., 5C42
 Bhargava, T. N., 5H44
 Bhet, P. V., 3D280, 4D294
 Bhat, R. V., 6F27
 Bhatia, P. G., 6B16
 Bhatnagar, R., 5J24
 Bhatnagar, P. K., 3B181, 4D66
 Bhatnagar, R. P., 4B193
 Bhato, G. P., 5H44
 Bhatt, A., 3H19
 Bhattacharya, K. N., 1B5, 2J14, 4B193
 Bhattacharyya, D. K., 4J53
 Bhatti, M. S., 5B78, 6B35
 Bhatti, M. K., 5G1
 Bhaumick, B., 1D188
 Bhawar, P. M., 4B81
 Bhende, S. S., 4G17
 Bhide, M. K., 6B76
 Bhoansale, G. J., 4E49
 Bhuee, G. S., 1B154, 4B192
 Bhupal, V., 3D218
 Bhutra, M., 5H44
 Bian, Y., 1F56, 3H8
 Bianchi, M., 6D134
 Bianchi, V., 4D281
 Bianchini, J. P., 5F12
 Bianco, P., 4E43
 Bianco, V. D., 4E43
 Biasotti, A. A., 4D78
 Bican, P., 2F26
 Bicchi, C., 4C66
 Bicking, M. K. L., 4H27
 Bidleman, T. F., 1H39
 Bidlingmeyer, B., 4C14, 5C19
 Biemann, K., 2C15, 5C55
 Bien, R., 6F36
 Bienhaus, G., 6D218
 Bienvendu, J., 2D242
 Bieri, J. G., 4D293
 Bieri, J. M., 4B104
 Biernacka, T., 6C87
 Bietz, J. A., 1G5
 Biffar, S., 3E50
 Bigelow, S. M., 5H69
 Biggs, W. R., 4C52
 Bigli, C., 2H81, 4D19, 5B93
 Bigler, W. N., 3D83
 Bihari, M., 2C27
 Bijster, P., 4D26
 Bilikova, A., 1H58
 Billedeau, S. M., 1C97
 Billets, S., 6A23
 Billiet, H. A. H., 1J43, 5J39, 6J25
 Billings, J. A., 3D310

- Billings, W. N., 1H39
 Billon, A., 1B98
 Billon, J. P., 3J98
 Bindels, J. G., 5D154
 Binenfeld, Z., 1D101, 1E74, 4D126
 Bing, S., 6D187
 Binger-Timeus, E., 5E43
 Bink, J. C. W. G., 6C3
 Binkowski, J., 1J1
 Binnemann, P. H., 5F40
 Biondi, P. A., 5D94
 Birch, B. J., 3J135
 Bird, R. P., 3G22
 Birks, J. W., 5C45
 Bisagni, E., 5D77
 Bisaz, R., 3G25
 Bischoff, R., 3D271
 Bishara, R. H., 6C35, 6G28
 Bishop, C. T., 4B139
 Bishop, D. F., 5D206
 Bishop, M., 5D102
 Bishop, R. W., 6H28
 Bishop-Freudling, G. B., 5D79
 Bisson, M., 4H37
 Bizouard, H., 5B173
 Bjellqvist, B., 4J57
 Bjoersth, A., 6D135
 Bjorkhem, I., 6D216
 Blaas, W., 6F46
 Blache, D., 2D288
 Black, C. T., 2D66
 Black, I., 2J130
 Blackard, A., 3H27
 Blackburn, M. B., 1J114
 Blackledge, R. R. D., 3C116
 Blackman, G. L., 3D206
 Blackman, J. A., 1G6
 Blackmore, G. W., 2B179
 Blad, E., 4D241
 Blades, M. W., 1J126
 Bladon, P. T., 2D238
 Bladt, S., 3E19
 Blagodatskaya, Z. G., 3C105
 Blahd, W. H., 2D66
 Blain, Y., 3D116
 Blair, I. A., 2D149, 3D165, 6D82
 Blais, D., 5D77
 Blakeney, A. B., 2D119, 2D120, 6D152
 Blakireva, R. S., 3C69
 Blakley, C. R., 4A42
 Blanc, B., 2F26
 Blanchard, B., 1J150
 Blanchard, G. C., 1D201
 Blanchin, M. D., 2E34
 Blanco, M., 1A14
 Blank, A. B., 1B21
 Blanke, R., 6D98
 Blaschek, W., 3D145
 Blasof, S., 1E20
 Blaszkewicz, M., 5H39
 Blaton, V., 6D180
 Blau, K., 6D210
 Blau, N., 2D303
 Blauch, J. L., 6F52
 Blaufuss, K. H., 3B87
 Blazevic, N., 1E58, 6E51
 Blesova, M., 2E47, 5E27, 6E44
 Bleumer, J. P. A., 5J25
 Bleys, W., 6D242
 Blight, L. F., 6D188
 Blinov, V. A., 2B172
 Blinova, T. I., 4E54
 Blo, G., 2H81, 5B93
 Blochowicz, A., 6H26
 Block, J. H., 3J111
 Blockx, P. P., 6D242
 Bloech, R., 2B2
 Bloemendal, H., 2D301
 Blokhin, S. M., 2B14, 3J66
 Blomberg, L. G., 1J76, 1J77, 2J47
 Blome, H., 2H28
 Blonda, C., 6D134
 Bloomer, J. R., 3D318
 Bloomfield, D. J., 2J90
 Blosczyk, G., 2C125
 Blosser, N., 4D199
 Blotcky, A. J., 4D136
 Blow, A. M. J., 5J22
 Blyankman, L. M., 1C47
 Blytt, H. J., 6D279
 Boadle-Biber, M. C., 2D202
 Boakman, M., 2D96
 Boatman, E. S., 2H73
 Boazi, M., 5J99
 Bober, H., 2J128
 Bobik, A., 5D62
 Bobinski, J., 1C21
 Bobleter, O., 6H71
 Bobrikova, E. I., 3B113
 Bocek, P., 4A20
 Bochenin, V. I., 3J61, 6B34
 Bochkarev, V. N., 6C52
 Bochner, B. R., 1D235
 Bocquet, C., 6D32
 Bode, K., 1H44
 Bodhe, A. M., 2J45
 Bodin, N. S., 2J109
 Bodini, M. E., 6B37
 Bodizs, D., 4B210
 Bodnar, J. E., 6E17
 Bodnya, V. A., 4B4
 Bodourian, S. H., 3D297
 Bodrina, D. E., 1J89
 Boduszynski, M., 4C61, 4C62
 Boecker, R., 6D62
 Boehm, G., 6H25
 Boehm, K. H., 5J30
 Boehm, R. E., 2C110
 Boehme, K., 5B191
 Boehmer, F. D., 1D213
 Boehmer, R. G., 3D31, 6B2
 Boehnke, B., 6A6
 Boekholt, H. A., 1D191
 Boeklen, K. D., 5B90
 Boer, J. G. W., 3H1
 Boer, P., 1D122
 Boer, Y., 5E21
 Boerboom, A. J. H., 3C92, 3H26, 6H21
 Boesel, R. W., 6D269
 Boettcher, B., 5C44
 Bogatzki, B. F., 5C80
 Bogdanova, V. I., 3B110
 Bogoslovskaya, T. N., 3C100
 Bogoslovskii, V. V., 3C100, 3C107
 Bogoyavlenskaya, L. A., 4B70, 4J129
 Boguslaski, R. C., 2D5
 Boguslavskii, A. N., 1C104
 Bogusz, M., 2E3
 Bohn, G., 3F23
 Boiron, M., 5D77
 Boiteau, H. L., 6D18
 Bojsava, E., 3H97
 Bold, A., 3C98
 Bolling, H., 1F17
 Bollmann, U., 6B191
 Bolmsjo, M. S., 1H11
 Bolotov, S. L., 4J60
 Bol'shakov, A. A., 6J8
 Bol'shakova, L. I., 1B27
 Bol'shova, T. A., 1B200, 2B174
 Bolt, D. J., 6D237
 Bolton, A., 4B73
 Bomans, M., 1B55
 Bombi, G. G., 5D83
 Bompadre, S., 1J59
 Bonants, P. J. M., 5D1
 Bonchev, P. R., 1E37
 Bonciocat, N., 1J187
 Bond, A. M., 4D23, 4H92
 Bondarenko, M. A., 5C20
 Bondareva, N. B., 1B187
 Bondarevskaya, E. A., 3C7
 Bondesson, U., 4D92
 Bondon, D., 4H71
 Bonelli, A., 2J117
 Bonfils, S., 5D126
 Boniforti, L., 2D186
 Bonilla, A., 3G11
 Bonilla Abascal, J. R., 4A10
 Bonini, L., 3D58
 Bonitati, J., 3D255
 Bonn, G. K., 6H71
 Bonnat, C., 1D93, 5D73
 Bonner, R. F., 2H3, 2H83
 Bonometti, G., 1H90
 Bonora, R., 4D273
 Bonsels, W., 3A22
 Bontemps, R., 3E30
 Boobis, A. R., 2D307
 Boon, W. M., 1H78
 Boonyarat, D., 6D271
 Boparai, K. S., 1E36, 4C3, 4C15
 Bopp, M., 4J55
 Bopp, R. J., 1D91
 Borca, S., 1J187
 Borchardt, R. T., 5D212
 Borcia, N., 4D330
 Borda, J., 1C63
 Borda, M., 1J187
 Borghesani, G., 4H74
 Borishade, A. B., 2B170
 Boriskin, A. I., 1J153
 Borisova, L. N., 6C7
 Borisova, Z. K., 3B95, 6C13
 Borkowska, M. M., 3G16
 Borkowski, A., 1E10, 2E66
 Borman, S. A., 3J148
 Bormotova, L. V., 5H100
 Boronin, V. P., 5C41
 Borovansky, A., 6E44
 Borovskii, E. S., 1J191, 2J169
 Borovskii, I. B., 2B146
 Borowski, E., 2D215
 Borrias-van Tongeren, V., 2D98
 Borroni, P. A., 1B9, 6D22
 Borsier, M., 4B206
 Borsje, B., 6G20
 Borstrok, J. J. M., 6D166
 Borszeki, J., 3B137, 3B138, 3B139
 Borthwick, J., 2B93
 Bortlitz, J., 5H95
 Bortnikov, G. N., 6C52
 Bory, C., 1J38, 4D290
 Bory, M., 3D107
 Borzani, W., 5D222
 Bos, A. S., 3J157
 Bos, E. S., 3D262
 Bos, K. D., 1G21
 Bosch, H., 3B145
 Boschi, S., 3D282, 3D283
 Bosch Ojeda, O., 2B12
 Bosch Reig, F., 5B97, 6C6
 Bosher, S. K., 5D11
 Bosin, T. R., 2D32, 3F48, 3F49
 Bosnea, L., 3C98
 Boss, G. R., 4D317
 Bosserhoff, A., 5D146
 Bossi, E., 2F34
 Bossuyt, R., 6F37
 Botre, C., 4D336
 Bots, A. M. B., 3D68
 Bott, B., 5J8
 Bottalico, A., 3G6
 Botto, R. I., 1B191, 3J84
 Botvinik, J., 4D174
 Boubakeur, M., 6E41
 Bouchier, I. A. D., 2D190
 Boudene, C., 4D275
 Boudeville, P. E. A., 4B28
 Boulanger, Y., 5D146
 Bouletreau, P., 2D93
 Boulieu, R., 4D290
 Boulou, Y., 3J102
 Boulous, P. M., 4D189
 Boumans, P. W. J. M., 6J98
 Bouanine, J. P., 4J36, 5J53
 Bouquet, S., 2D80
 Bouquet des Chaux, J. L., 3D109
 Bourbon, C., 1D70
 Bourbon, P., 1D70, 4D41
 Bourke, J. B., 5G14
 Bourrain, P., 5B40
 Bourret, S., 3B82
 Bourrieau, J., 1J102
 Bousquet, E., 5D123
 Boust, D., 6H33
 Bouthillier, D., 2D288
 Bouwman, J., 6J118
 Bouyoucos, S. A., 5H18
 Bowen, H. J. M., 1H74
 Bowen, J. M., 3E41
 Bowers, G. N., jun., 2D294
 Bowers, L. D., 1D141
 Bowers, M. T., 6J119
 Bowers, S. W., 5D190
 Bowie, L. J., 2D265
 Bowitz, R., 1F4
 Bowman, M. C., 3D137
 Bowmer, T., 5C81
 Boyd, G. K., 5D30
 Boyd, R. K., 5J141
 Boyde, T. R. C., 4D318
 Boyer, J. F., 4D59
 Boyer, K. W., 5B182
 Boyington, D., 6D245
 Boymel, J. L., 6G26
 Bozmowski, D., 6D228
 Bozkurt, M., 4F25
 Bozzelli, J. W., 5J91
 Braatz-Greeske, K., 4E62
 Brabec, V., 4D46
 Bracciali, A., 5F32
 Brach, B. Ya., 2H12
 Brackmann, T., 5D171
 Bradbury, D., 5D165
 Bradford, J. H., 3J109
 Bradford, N. C., 2D192
 Bradford, W. L., 6A13
 Bradley, S. J., 1C34
 Bradshaw, J. D., 1B63
 Bradshaw, J. J., 2D65
 Braetier, P., 2D34, 2D41
 Braeutigam, M., 6D264
 Braghieri, D., 5F18
 Bragintseva, L. M., 4D158, 6D168
 Bragonje, J., 1E42
 Braiotta, E. A., 4D90, 4D151
 Brajter, K., 2B20, 5B16, 5B158, 6B14, 6B15
 Bramblett, G. T., 5J24
 Bramstedt, W. R., 4B152
 Bramston-Cook, R., 4J75
 Branca, P., 3F3, 5F2
 Brand, H. R., 6J169
 Brande, W., 5D87
 Brandenberger, H., 1J166, 6E13
 Brandl, A., 6H11
 Brandl, W., 5G5
 Brandone, A., 6D22
 Brands, G., 2A6, 4A3
 Brandt, A., 2H77
 Braselton, W. E., 4D20
 Braselton, W. E., jun., 5D236
 Braun, D., 1C99
 Braun, D. G., 3D172
 Braun, T., 5J11
 Braun, V., 2E5
 Brautbar, N., 6D12
 Braven, J., 3H91
 Braverman, L. E., 1D180
 Braverman, S., 4D119
 Brayden, J. E., 5J70
 Brazevich, E., 3J66
 Brazevich, Ya., 3J66
 Brazhnikov, V. V., 5J16
 Brazhnikova, M. G., 4E28
 Brazier, J. L., 2D78, 3E40
 Breccia, A., 4E77
 Brehany, E. Y., 1F29
 Breidahl, M. J., 3D259
 Bremner, I., 6D232
 Brennecke, S. P., 1D258, 6D169
 Breninkmeijer, C. A. M., 2J2
 Bretauiere, J. P., 2D159
 Breth, A., 2J139
 Brettel, T., 2E50
 Breuer, H., 1D21, 1D143, 2D70, 4D172
 Brewster, J. D., 3J71
 Brezina, P., 1F26
 Brezinski, D. P., 4J128, 6J134
 Brezonik, P. L., 4H81, 4H82
 Briddon, A., 4D219
 Bridges, J. W., 1D48
 Bridges, R., 4D50
 Brien, C. J., 2F59
 Brien, J. F., 3D112
 Brien, T. G., 5D176

- Briggs, C. J., 2E12
 Briggs, D., 1C113
 Briggs, R. C., 4D236
 Brihaye, C., 2B10, 4H45
 Brillo, A., 2C122, 4F4
 Brimfield, A. A., 4C91
 Brinkman, U. A. T., 1D50, 1D90
 1H77, 1H78, 1J54, 3D211, 4J47
 Brinton, R. E., 3D227
 Brisset, J. L., 6J103
 Brisse, G. M., 1J90
 Brisson, A. M., 2D80, 5D66
 Bristol, D. W., 1D111
 British Carbonization Research Association, 1C87, 5C62
 British Standards Institution, 1B102, 1B129, 1B153, 1C23, 1C91, 1C92, 1C93, 2B114, 2C22, 2C62, 2C64, 2C67, 2C69, 2C70, 2C71, 2C78, 2C81, 2C82, 2F37, 2H19, 2H20, 3F30, 3F31, 4C54, 4C55, 4F13, 4F76, 4H58, 5A15, 5B30, 5B31, 5B32, 5B71, 5B177, 5B193, 5C44, 5C11, 5C12, 5C60, 5F11, 5F46, 5F57, 5F58, 5F74
 Brittain, A. T., 3D216
 Brittain, T., 2D65
 Britton, J., jun., 4C53
 Briukhanov, A. S., 1J153
 Brik, J., 2E45
 Brocas, J. J., 1C81
 Brock, D. J. H., 2D290
 Brockmann, W., 6D198
 Brodda, B. G., 4B89
 Brodie, M. J., 2D307
 Brodie, R. R., 6D106
 Brody, B. B., 2D38
 Brodzinski, R. L., 3B49
 Broekaert, J. A. C., 5B66
 Broekman, A., 5B104
 Broennum-Hansen, K., 6D253
 Brogen, A., 2D81
 Broich, C. R., 5D173
 Broll, N., 2J92, 2J94
 Bromba, M. U. A., 4J78
 Brondz, I., 6D158
 Bronnikov, G. E., 5D186
 Brons, C., 5F47
 Brooke, P. J., 4F6
 Brooker, J. D., 5D207
 Brooks, C. J. W., 1D138
 Brooks, J. B., 6D2
 Brooks, J. J., 3C65
 Brooks, K., 5D13, 6E20
 Brooks, M. A., 5D56, 5D64
 Brooks, P. W., 2D172, 2L175, 3D186
 Broom, G. N., 4D303
 Brosch, K. O., 5D104
 Brotherton, H. O., 5D25
 Brotherton, J. E., 1D218
 Broughton, P. M. G., 2D26, 3D197
 Brown, C., 5A27
 Brown, Cyril, 1H24
 Brown, C. W., 2H2
 Brown, F. M., 3D216
 Brown, H. M., 2J167
 Brown, J. E., 6D120
 Brown, K., 2D101
 Brown, L., 3H91
 Brown, M. J., 4D189
 Brown, P. R., 1D242, 3D274
 Brown, R. E., 1B1
 Brown, R. J., 2C75
 Brown, R. R., 3D121
 Brown, R. S., 5C65
 Brown, S., 6D255
 Brown, T., 6J159
 Brown, W. D., 5J106
 Browner, R. F., 5J125
 Brownsey, B. G., 2D173, 2D175, 3D186, 4D175
 Brozmanova, H., 3D217
 Bruce, J., 3D18
 Bruchertseifer, H., 6B84
 Bruckner, A., 3D168
 Bruene, H., 2C130
 Bruer, B. A., 2F59
 Bruer, D. R. G., 2F59
 Bruhn, F. C., 4C57
 Bruins, A. P., 1J165, 3J31, 5J55
 Brule, G., 3F29
 Brumleve, T. R., 4B154
 Brunden, M. N., 4D216
 Bruneau, C. M., 4J50
 Brunelli, C., 1E56
 Bruner, F., 4H86
 Brunn, H., 4F15
 Brunn, W., 1F12, 4F45
 Brunneman, K. D., 3D138
 Brunold, C., 5D203
 Bruns, G. W., 5F22
 Bruns, R. E., 1J130
 Bruscoli, C., 4D53
 Brush, J. S., 2E38
 Brush, S. G., 4B109
 Brussee, D., 5D72
 Brutko, L. L., 4E33
 Bry, R. E., 5C78
 Bryan, W. P., 4B27
 Bryce, C. F. A., 5J69
 Bryden, C. C., 2A13
 Brykina, G. D., 1B184, 3G8
 Brynskov, J., 5D195
 Bryson, C. E., 4J80
 Bryzgalov, A. N., 4B64
 Brzezinska, A., 1H51
 Brzostowska, E., 4C27
 Brzyska, W., 4B41
 Bubert, H., 3B140
 Bucci, R., 4D186
 Buchbauer, G., 4B8, 4B9, 4E6
 Buchs, A., 2D87
 Buchwald, W. F., 4D49
 Buck, M., 3D278
 Buck, S. H., 3D227
 Buckee, G. K., 4F57
 Buckingham, D. A., 6B162
 Buckingham, W., 3D86
 Buckle, K. A., 4H57
 Buckley, D. E., 5D188
 Buckley, J. A., 1J164
 Buckman, N. G., 6C34
 Budd, R. D., 1D62
 Budde, W. L., 1J175
 Budimir, J., 1E62
 Budnikov, G. K., 3B153, 5B142
 Budrugaec, S., 6C63
 Budzikiewicz, H., 2J134
 Buechel, A. T., 1D71
 Buechner, M., 4D181
 Bueding, E., 6C46
 Buehler, R., 4D310
 Buekens, A., 3J50
 Bueno Garesse, E., 5H80
 Buegers, K., 3B173
 Buerkholz, A., 1J201
 Buerstenbinder, J., 1B192, 1B193, 3J97
 Bufalini, J. J., 5H23
 Buffett, C. E., 4J40
 Bugaevskii, A. A., 2C33, 3A4
 Bui, K. H., 2C110
 Buijten, J., 1J76, 1J77
 Bui Trung, 1C71
 Bukhave, K., 4D159
 Buko, A. M., 5D148
 Bukovskii, M. I., 5H29
 Bulanova, E. A., 1B128
 Buldini, P. L., 5B95
 Bullock, D. G., 3D197
 Bult, A., 4C29
 Bulusek, J., 3C10, 3C11
 Bulychcheva, Z. Yu., 5C54
 Bumbalova, A., 6G1
 Bun, H., 5D43
 Bunce, L. A., 4B139
 Bunce, N. J., 6G11
 Bunch, E. A., 1E78
 Bundenkova, N. I., 3C4, 6B29
 Bundgaard, H., 6E27
 Bunjapamai, S., 1F7
 Bunkin, A. F., 1H13
 Bunyagidj, C., 6D201
 Bunzli, J. C. G., 3J138
 Buonarati, M. H., 4D78
 Buongiorno, M., 1H90
 Bur, H., 4D194
 Burakov, V. S., 4B162
 Burba, P., 2H50, 5H51, 6H34
 Burch, J. E., 6D96
 Burd, J. F., 4D88
 Burdick, D., 6G15
 Buresova-Jancarova, I., 4C72
 Burge, D., 1H56
 Burger, B. V., 6J72
 Burger, J. A., 5G18
 Burger, K., 1A31B
 Burgess, D. D., 1C85
 Burghes, A. H. M., 4J56
 Burguera, J. L., 3D29, 6J18
 Burguera, M., 3D29, 6J18
 Burholt, G. D., 3J127
 Burina, A. I., 5H33
 Burk, R. C., 6H42
 Burke, D. G., 6D159
 Burkhardt, A. E., 1D225
 Burm, A. G. L., 4D105
 Burnel, D., 2D44, 3H51
 Burness, A. T. H., 4D260
 Burnett, M. A., 4D216
 Burnier, R. C., 1J174
 Burns, C. M., 2J41
 Burns, D. T., 4A17, 4C8, 5A10, 6B158
 Burns, J. W., 2D197
 Burnstein, P., 5D113
 Burnworth, L., 1D171
 Burov, P. V., 6B71
 Burrell, M. C., 3J92
 Burridge, J. C., 1G9
 Burrows, R., 5J85
 Burrows, R. B., 5D197
 Bursey, M. M., 3J33, 3J34, 4D135, 6C11
 Burtseva, T. I., 2D127
 Buruiana, T., 6C85
 Bury, R. W., 3D129
 Burylev, B. P., 2B35
 Busch, E. W., 2D23
 Busch, K. L., 1J170, 6J117
 Busch, K. W., 4J83
 Buser, H. R., 6C20
 Bush, B., 1D103, 5D104
 Bushway, R. J., 2F31, 5G39, 5G40
 Busigin, A., 1H12
 Buslig, B. S., 1F41
 Busnel, J. P., 4J50
 Bustos, A., 4D84
 Buszewski, B., 1J33, 4H28, 4J26
 Butler, H. T., 2J50, 5J76
 Butler, I., 3H91
 Butler, L. G., 1D218, 6D279
 Butler, L. R. P., 5A13
 Butler, S. J., 3D33
 Butler, S. W., 5B182
 Butler, T., 2D259
 Butovskii, M. E., 2C119
 Buttrill, S. E., jun., 2C85
 Butte, W., 5F70
 Butterworth, J., 4D329
 Buttery, J. E., 4D90, 4D151
 Butts, W. C., 3D296
 Butusova, A. I., 3B101
 Butz, R. F., 3D96
 Buvalets, T. F., 6C40
 Buyanova, L. M., 2B180
 Buydens, L., 4J74
 Buyer, J. S., 6B188
 Buysschaert, M., 6D223
 Buyuktinkin, N., 3D120, 4D121, 4D122
 Buzaevskii, A. A., 1C106
 Buzek, F., 3H64
 Bychkov, Yu. A., 1J110
 Bychkova, E. D., 1B165
 Bye, R., 1B136
 Byers, D. A., 4D309
 Byers, W. A., 2J180, 4C33, 4C34
 Bygdeman, M., 4D68
 Bykova, L. N., 3C107, 3C107
 Bykovskii, Yu. A., 1J153
 Byler, D. M., 6F30
 Bylina, A., 3C63
 Byrne, A. R., 2D40
 Bystricky, L., 1G28
 Bystritskii, A. L., 5B124
 Cabalin G., V., 4C57
 Cabezas, J. A., 5D221
 Cabezon, L. M., 4B20, 5F66
 Cabicar, J., 2B74
 Cabras, P., 3G35
 Cabrera-Martin, A., 2B5, 2B6, 2B46, 4B83
 Caccia, S., 5D58
 Caceci, M. S., 6J172
 Caceres, I. M., 4F63
 Caceres, J. M., 4F63
 Cacho Palomar, J., 2A16, 2A17, 2B101, 3A12, 3B51, 4E82
 Caddock, B. D., 2C66
 Cadet, J., 5D183
 Cadieux, S., 2D110
 Cadle, S. H., 2H25
 Caesar, E. A. Y., 3J127
 Cai, Q., 1B82
 Cai, R., 3B63
 Cai, S.-M., 1J195, 1J196
 Cailleret, J., 2B3
 Cairns, S. R., 3D170
 Cairns, T., 2D116, 2E30, 2G17, 2G18, 5F19
 Calabresi, P., 4D118
 Calaf, R., 3D107
 Calam, D. H., 1D2, 1D3
 Calasanio, D., 6J164
 Calberg, G. E., 4H66
 Caldecourt, V. J., 2J150
 Caldwell, J., 4D107
 Caldwell, J. T., 2B84, 4B104
 Caldwell, K. D., 1J30
 Caldwell, W. E., 6J3
 Caletka, R., 4B147
 Callaerts, A. J. A., 3J50
 Calligaro, L., 3H95
 Calokerinos, A. C., 4C24
 Calvert, R. T., 5D61
 Calzolari, C., 1F32, 2D31, 6F44
 Camara-Rica, C., 6B122
 Cambiaghi, M., 2J117
 Cammann, K., 6J129
 Camp, D. C., 4B103
 Camp, V. M., 4D298
 Campanella, L., 1E12, 6C43
 Campbell, A. D., 3C9
 Campbell, A. K., 3D277, 5D162
 Campbell, J. E., 1J48
 Campbell, N. E. R., 5D15
 Campbell, P., 5D235
 Campbell, W. P., 3D240
 Campeau, J. D., 6D224
 Campi, E., 1C41, 2H60, 4B40
 Campiglio, A., 1C15, 3B57, 3C13
 Campillo, A. J., 5J9
 Campos, L. da S., 1D130
 Camps, J., 6D221
 Camurati, F., 4F4
 Candelpergher, G., 6D109
 Candiano, G., 6D236
 Canellas, J., 6J62
 Cano, J. P., 5D28, 5D43, 6D92
 Cano, Y., 6D177
 Cano Pavon, J. M., 1A10, 4A10
 Cantaforci, A., 4D171
 Cantagalli, P., 5F32
 Cantle, J. E., 2J155B, 3J104
 Cantrell, C. A., 1H21, 5H15
 Cao, Y., 1F56
 Capaldi, D. J., 4D142
 Capelli, R., 4G18
 Capetillo, S., 6D225
 Capitan Garcia, F., 3A11, 3B67, 5B52
 Capitan-Vallvey, L. F., 4B107
 Capizzi, T. P., 4A4
 Caplain, R., 1B132
 Caplan, Y. H., 1D75
 Caplar, V., 6E51
 Capone, S. M., 2C111
 Capony, J. P., 3D214
 Capp, M., 1D192
 Caprais, J. C., 6H51

- Caprioli, A., 5D36
 Caprioli, R. M., 4J113
 Caputo, M. J., 6D4
 Carabias Martinez, R., 5B65
 Caraculacu, A., 6C38, 6C85
 Caradonna, P., 4D277
 Caramella-Crespi, V., 1B9
 Caravajal, G. S., 4H41
 Carballido, A., 4F44
 Carbone, D., 6C37
 Carbonell Martin, G., 6G21
 Cardaciotto, S. J., 4J111
 Cardosi, P. J., 1C122
 Carducci, C., 6E52
 Carelli, G., 1D26
 Carey, E. M., 2D300
 Carey, F., 5D107
 Cargnelli, G., 6D109
 Carl, H., 3A22
 Carlassare, M., 5E11
 Carlberg, G. E., 4H66
 Carles, P., 4D56
 Carlin, J. R., 3D9
 Carlin, T. J., 4J109, 5J140
 Carlson, R. M., 3H87
 Carlson, T. A., 1J148
 Carman, A. S., 5G21
 Carman, D. J., 6F9
 Carnahan, J. W., 1J131
 Carnegie, P. R., 5F34
 Carnevale, A., 5E12
 Carnevale, L., 3E74
 Carnrick, G. R., 2H52, 3D36, 4D33, 6B99, 6J90
 Caroli, S., 1D20, 5D12
 Carr, G. P. R., 4E75
 Carr, J. W., 1J126
 Carr, P. W., 4B17
 Carracedo, A., 1D46
 Carrella, M., 4D232
 Carrera, B. M. E., 3J136
 Carroll, R. M., 2D256
 Carroll, D. E., 2F57
 Carroll, H. J., 6D33
 Carruthers, S. G., 2D74
 Carter, D. M., 3J117
 Carter, J. A., 4J3
 Carter, J. E., 3E55, 4E87
 Carter, R. F., 2D43
 Carthy, B. J., 4E63
 Cartier, P. H., 6D289
 Cartigny, B., 3D153
 Carly, T. J., 2D73
 Caruana, G., 2B9
 Carunchio, V., 4D186
 Caruso, A., 1F23
 Caruso, C., 6D34
 Caruso, J. A., 1J127, 1J131, 2J71 4B16, 4J89, 6J66
 Casale, M. A., 1J83
 Casalini, A., 5C58
 Casals, A., 3D3
 Casanovas, J., 2J4, 6B25
 Casassas, E., 5B168
 Casella, V. R., 4B139
 Casey, M. L., 2D151
 Casey, T. J., 6A22
 Casoli, A., 2F58
 Casper, L. A., 3A1
 Cassidy, C. J., 1J174
 Cassidy, R. M., 6B20
 Cassina, T., 4D153
 Castagnola, M., 4D277
 Castelli, R., 2H60
 Castillo, F. J., 1D251
 Castillo, J. R., 4C45
 Casy, A. F., 4E27
 Catalani, F., 6D134
 Catchpole, V. R., 1G14
 Caterson, I. D., 2D181
 Cathelineau, L., 2D217
 Catignani, G. L., 4D293
 Catlow, D. A., 3D177
 Catterall, A., 1D60
 Catterick, T., 5J47
 Caude, M., 5J32, 5J48
 Caudill, W. L., 3J145, 5C43
 Causon, R. C., 4D189
 Cavallieri, A., 4D39
 Cavalli, P., 3B160, 5J133
 Cavazzutti, C., 2E9
 Cavell, P. A., 6B181
 Cavrini, V., 1E9, 3E73
 Cayton, J. C., 2J78
 Cazaux, J., 4J101
 Ceasar, G. P., 2B89
 Cebula, J., 6B172
 Ceccaldi, J. N. C., 2C109
 Ceccon, L., 6F44
 Cedergren, A., 1B134
 Ceipidor, U. B., 2E26
 Celardin, F., 1D251
 Cela Torrijos, R., 4B20, 5F66, 5F69
 Cellini-Legittimo, P., 6H8
 Centini, F., 3E39
 Cerbus, C. S., 2J70
 Cercasov, C., 3C49
 Cerco, E., 5D144
 Cerda, V., 2A11
 Cerda Martin, V., 1C69
 Cermakova, L., 2B51, 2B164, 4B196
 Cernikova, M., 4D127
 Cerofolini, G. F., 1B106
 Cerri, V., 5C72
 Cesario, J., 2B69, 3J102
 Chabot, G. E., 5J87
 Chadava, M. N., 6G17
 Chadimova, D., 2J44
 Chaffee, A. L., 5C63, 5C64
 Chai, R., 5J138
 Chakarvarti, S. K., 5F45
 Chakrabarti, A. K., 1B167
 Chakrabarti, D., 2J35
 Chakrabarti, J., 1G30
 Chakrabarti, P., 3E23
 Chakrabarti, S. G., 4D124
 Chakraborty, M., 4E49
 Chakraborty, P. R., 1B167
 Chakraborty, A. K., 1B182
 Chalisova, N. N., 4B203
 Challinor, J. M., 6C86
 Challis, B. C., 1C34
 Chalupnik, S., 4J126
 Chamberlin, T. A., 5J63
 Chambon, P., 4F47
 Chambon, R., 4F47
 Champ, W. H., 1B107
 Champness, P. E., 1B8
 Chamsi, A. Y., 4B115
 Chan, F., 2D69
 Chan, H. W. S., 5G8
 Chan, K.-H. C., 3J100
 Chan, K. K. H., 4D95
 Chan, K. Y., 3D115, 6D90
 Chan, W. G., 2D109
 Chance, B., 1J108
 Chandola, L. C., 4D16
 Chandra, S., 2J79
 Chandravanshi, B. S., 3B109
 Chaney, E. N., jun., 3D69
 Chang, C.-J., 4D279
 Chang, C. C., 2J181
 Chang, D. Y., 6H61
 Chang, E. S., 2D184
 Chang, F.-H., 4D245
 Chang, F. C., 2D187
 Chang, G.-G., 4D338
 Chang, J.-Y., 3D172
 Chang, J. P., 1J30
 Chang, L. F., 1B57, 1B171
 Chang, Q. Y., 1B81
 Chang, S. F., 1D88, 3D60, 3D114
 Chang, T., 3D97, 6D131
 Chang, W., 2B62
 Chang, W.-H., 4D99, 5D105
 Chang, Yedi, 5B69
 Chang, Yiping, 3C24
 Chao, J., 1D276
 Chapalain, J. P., 6D115
 Chaplygin, V. I., 4B33
 Chapman, A. H., 4H77
 Chapman, J. R., 3J27
 Chaprasova, L. V., 5B110
 Charbonneau, R., 2F28
 Charette, C., 6D107
 Charles, M. W., 3J129
 Charlet, E. G., 4D307
 Charlton, J., 1H90
 Charliwood, K. A., 4C67
 Charpentier, C., 1D274, 3C80
 Chartoire, M. Y., 3D47
 Charykov, A. K., 4H46
 Chashchina, V. M., 2B38
 Chasseaud, L. F., 6D106
 Chastagner, P., 2J141
 Chatt, A., 4D17, 4F68
 Chatterjee, A. B., 1B167, 3B158
 Chatterjee, P. C., 4C86
 Chattopadhyay, P., 3B29
 Chaturvedi, G. K., 4B81
 Chau, A. S. Y., 3H104B, 5H43, 5H92
 Chau, Y. K., 2H85
 Chaube, A., 1H3
 Chaudry, A. H., 6E33
 Chausiaux, P., 4D174
 Chauvet, S., 6F68
 Chavan, M. B., 3B164, 5B160
 Chawla, H. M., 3E42
 Chayen, J., 1D60
 Chazot, G., 6D226
 Cheek, G., 2J165
 Cheetham, N. W. H., 1C24, 6D149
 Chekirda, T. N., 2B48
 Chekryshkina, L. A., 6E31
 Chen, B., 3B66
 Chen, Chengzhi, 4B133, 6J145
 Chen, Cunzhi, 4B177
 Chen, C. L., 1D144
 Chen, Daren, 4B75
 Chen, Dechang, 2H71
 Chen, E. C. H., 6F58, 6F63
 Chen, Gloria, 1F23
 Chen, Guangbiao, 4E23
 Chen, Guonan, 2H64
 Chen, G. H., 5H14
 Chen, H., 4D44, 5B140, 6H21
 Chen, H.-N., 3H26
 Chen, Jinbiao, 4B177
 Chen, Jinseng, 3H96
 Chen, Jonh-Shen, 5J67
 Chen, J. R., 6E17
 Chen, Jiann Ruey, 4B213
 Chen, J. S., 4B213
 Chen, Jung Shou, 3D181
 Chen, L., 6G14
 Chen, L. F., 1B151
 Chen, L. S., 5D18
 Chen, N. H., 5H81
 Chen, Qilan, 4B11, 4B211
 Chen, Qingfu, 1C58
 Chen, Renhe, 6B159
 Chen, Rongli, 3H8
 Chen, S.-C., 2C32
 Chen, Shuping, 3E3
 Chen, S.-T., 3D147
 Chen, Suzhen, 6E60
 Chen, S. G., 3C40
 Chen, T., 3A9, 6B116
 Chen, Wanging, 4E8
 Chen, Weitong, 6C45
 Chen, Wuben, 2E28
 Chen, Xiaozhi, 2E39
 Chen, Xiorong, 6C45
 Chen, Yongxi, 6B68
 Chen, Yongzhao, 5B140
 Chen, Yongzhen, 4B51
 Chen, Yuezu, 6C55
 Chen, Zhenhua, 4B76
 Chen, Zhizhong, 3E76
 Cheney, J. L., 4H17
 Cheng, Jiachong, 6E20
 Cheng, Jianbang, 1B173
 Cheng, Jieke, 1B34, 6B68
 Cheng, J. K., 1B81
 Cheng, K. L., 3C40
 Cheng, M.-L., 2E52
 Cheng, M. T., 1J171, 1J172
 Cheng, P.-T., 3D28
 Cheng, S., 3J99
 Cheng, W., 1E41, 6D187
 Cheng, Yingke, 4B77
 Cheng, Yuezu, 1C108
 Cheremukhin, E. P., 5H37
 Cherenkova, N. S., 3C114
 Cheresheva, A. F., 1C117
 Cherkas, S. S., 4D166
 Cherkasov, A. A., 1B74
 Chernenko, S. P., 2J93
 Chernogorenko, V. B., 2B111
 Chernouvanova, T. M., 2B104
 Chernousova, N. I., 3C100
 Chernov'yants, M. S., 2B104
 Chernysheva, M. A., 4B216
 Chesnokova, O. Ya., 3C107
 Chesnokova, S. M., 2B175
 Chevalier, M., 4J58
 Cheviom, M., 3F40
 Chew, B. P., 2D245
 Chewter, L. A., 1J105
 Chi, A.-H., 4D228
 Chi, M. M. Y., 3D276
 Chiamori, N. Y., 2D12
 Chiantore, O., 5J61
 Chiarotti, M., 5E12
 Chiavari, G., 6C41
 Chiba, Kan, 5D26
 Chiba, Koichi, 3H89
 Chiba, Mikio, 1G37
 Chiba, Momoko, 4D32
 Chibber, S. S., 3E42
 Chibisov, A. K., 2B71
 Chigorno, V., 3D174, 3D175
 Chikalo, L. P., 3C106
 Chikryzova, E. G., 2H57
 Chin, D., 4C70
 Chin, K. M., 4D70
 Chin, R. C., 2D237
 Chinn, D. M., 5D42
 Chipperfield, J. R., 3J149
 Chipponi, J., 4D298
 Chiricosta, S., 1B203
 Chirletti, P., 5D36
 Chitashvili, V. A., 3B92
 Chiti, F., 2F14, 4D53
 Chittim, B., 3C121
 Chitwood, R. L., 4F54
 Chmielarz, B., 4F65
 Cho, B. H. S., 2D169
 Cho, T., 2D29
 Chobanov, D., 4C2
 Choppin, G. R., 3J138, 6J172
 Chortyk, O. T., 1J78
 Chou, J., 3H9
 Chouak, A., 1B96
 Choudhary, V. R., 5B184
 Chouksey, S. P., 3A20
 Chourauqui, J. P., 1D222
 Chovancova, J., 2C45
 Chow, A., 2B11, 4B120, 6B179
 Chow, W. S., 1D233
 Chow, Y. T., 6A25
 Chowdhry, B. Z., 4E21
 Chowdhury, M. K. R., 3E23
 Chretien, J. R., 1C19
 Christ, B., 1J100
 Christ, P. J., 6C54
 Christensen, E., 5D202
 Christensen, R. G., 5J51
 Christenson, R. H., 2D81
 Christian, G. D., 1D204
 Christian, S. D., 1A23
 Christie, A. C., 1B33
 Christie, W. W., 3D322B
 Christmore, D. S., 5D52
 Christofides, A., 1E70
 Christou, A., 1B206
 Chromy, V., 1D116
 Chrus, S. C., 2C132B
 Chruscinska, T. J., 4J5
 Chrzanoski, W., 6H3
 Chu, T. M., 6D280
 Chuang, S. C., 5J91
 Chubakova, E. I., 6J161
 Chubar, L. V., 3H15
 Chudasama, J. J., 4E50, 4E80
 Chue, M., 6D94
 Chukhrii, Yu. P., 3B126
 Chukwueye, C. O., 2H65
 Chung, F. H., 1B105
 Chung, K. C., 2J151
 Chung, T. G., 3D198

- Churacek, J., 1C31, 6C21, 6C72
 Church, K. A., 1B107
 Churchill, F. C., II, 6D118
 Churik, D. P., 6B88
 Ci, Y., 1A12, 3B65, 6B54
 Ciagwa, J., 1C80
 Ciappellano, S., 2F34
 Ciborowska, U., 6B15
 Ciegler, A., 5G11
 Cieslak, M. E., 6F57
 Cimino, F., 4D286
 Cintron, C., 5D197
 Ciocca, S., 4D171
 Ciric, I., 1A19
 Ciszewska, M., 3E27, 3E29
 Ciszewski, A., 2B13
 Citti, L., 5D189
 Ciucanu, I., 2D137
 Ciucu, A., 4D308
 Ciupek, J. D., 1C88
 Civalov, E. G., 3H92
 Cizek, Z., 4B183
 Cizmarik, J., 2E47, 6E44
 Claase, C., 6J93
 Claes, I., 2D273
 Claes-Thoreau, F., 1D32
 Clancey, C. J., 2D177
 Clark, A., 3D67
 Clark, C. R., 6B162
 Clark, J. R., 1B14
 Clark, P. A., 2D239
 Clark, P. M. S., 2D26, 3D197
 Clark, R. L., 4F46
 Clark, R. M., 5D214
 Clark, S., 4D72
 Clark, W. A., 4D255
 Clarke, D. H., 6D161
 Clarson, C. L., 3D270
 Clausen, S., 4D206
 Clayton, E., 1J101
 Cleary, R. W., 6E22
 Clegg, J. B., 1J163
 Clegg, M. S., 3D48
 Cleij, P., 6C2
 Clements, P., 4D232
 Clements, P. R., 5D213
 Clerc, J. T., 1J95, 4J79
 Cliff, G., 1B8
 Clifford, M. N., 1F38
 Cline, D. M., 2H94
 Cline, J. D., 4J1
 Cloutet, W. E., 1E76
 Clyde, D. C., 5G32
 Clymans, P. J., 6C53
 Co, H. T., 4D294
 Coassolo, P., 5D43, 6D92
 Coates, M. L., 4H68
 Cobb, D. D., 3B81
 Cobelli, L., 2H33, 3J26
 Cobourn, W. G., 4H16
 Coburn, S. P., 4D297
 Cocco, G., 5B93
 Cocheo, V., 5D83
 Cocho de Juan, J. A., 4F5
 Cochrane, W. P., 5G28
 Cockcroft, S., 2D157
 Coduro, E., 2C92
 Cody, R. B., 1J174
 Coetzee, J. F., 3B6, 3J147, 3J148
 Cohanin, S., 1H91
 Cohen, Alex., 2D259
 Cohen, Aviad., 3J32
 Cohen, N., 5H65
 Cohen, S. A., 5C26
 Cohen, S. L., 1J171
 Cohn, C. E., 1J5
 Cohn, L. J., 3E50
 Colagrande, O., 2F58
 Colby, B. N., 2J76
 Cole, P. A., 3J101, 6J115
 Cole, S. P. C., 3D318
 Cole, T. W., 2B22
 Coleman, D. R., 2H79
 Coleman, M. W., 2E54
 Coleman, P. L., 4D250, 4D251
 Coleman, R. A., 2H82
 Colgan, S., 4C14, 5C19
 Colin, C., 6D84
 Colin, H., 1D154, 1H77, 1J36, 1J44, 2J26, 3J24, 4C1, 4J35, 4J36, 4J43, 5J46
 Colin, J. N., 1D93, 4D102
 Colin, P., 5D57
 Colin, R., 4D132
 Colinet, E., 5A18, 6D14
 Colli, A., 4C71
 Collier, C. P., 1D96
 Collinge, A., 3F17, 6D76
 Collins, C. H., 4B141
 Collins, C. J., 2D173, 6D193
 Collins, M., 6D123
 Collins, M. D., 2D276
 Collins, M. G., 5F34
 Collins, R., 2F3
 Collins, R. J., 1J109
 Collins, W. P., 4D222
 Collinsworth, P., 3B82
 Colliss, J. S., 5D122
 Colombi, A., 4D153
 Colonna, A., 4D286
 Colton, C. K., 2D113
 Colton, R. J., 1H36
 Colvin, M., 2D68
 Colvin, M., jun., 3D151
 Colvin, M. E., 5D8
 Combabieu, R., 3C26
 Combellas, C., 5J48, 6J36
 Comet, F., 3E40
 Commission on Automation and Clinical Chemical Techniques, 6D5
 Comparini, I. B., 3E39
 Compton, R. G., 6J162
 Conacher, H. B. S., 6F32
 Conard, G. J., 1D88
 Concheiro, A., 1D46
 Concheiro, L., 1D46
 Conder, J. R., 1J66
 Cone, E. J., 4D49
 Confavreux, C., 6D226
 Conkerton, E. J., 3F7
 Conley, D. L., 3E4
 Conley, M. K., 2J105
 Connell, P. S., 6H13
 Connelly, D. P., 3D5
 Connick, M., 3D278
 Connor, J., 3D35
 Connors, K. A., 3D213
 Conrad, K. A., 6D204
 Conrad, V. B., 1C59
 Conradson, S. D., 5J98
 Constantin, E., 1J151
 Constantinescu, T., 3C49, 6C63
 Contardi, V., 4G18
 Contarini, G., 1F30
 Conte, J. E., jun., 5D38
 Conti, C., 1B73
 Conway, W. D., 5J23
 Conyers, R. A. J., 2D143
 Conzemijs, R. J., 4H42
 Cook, C. E., 4D70
 Cook, J. G. H., 5D179
 Cook, N. J., 3D81
 Cooke, J. R., 3F1
 Cooke, M., 5J85
 Cooke, N. H. C., 1D192
 Cooke, R. J., 6D37
 Cooks, R. G., 1C88, 1J170, 4J117, 6J117
 Cookson, D. J., 3J90, 5C51
 Coombes, E. J., 4D247
 Cooney, D. A., 5D199
 Cooper, D. A., 1J172
 Cooper, E. A., 2D43
 Cooper, E. H., 4D234
 Cooper, G. R., 3D263, 3D264
 Cooper, J. D. H., 1D267, 2D77, 2D209
 Cooper, J. K., 1D123, 5D53
 Cooper, N. T., 2D238
 Cooper, T. B., 1D74, 6D58
 Cooper, W. J., 2H68
 Cope, M. J., 6J97
 Copeland, K. C., 1D189
 Copikova, J., 4F24
 Copin, A., 1G29
 Coplen, T. B., 2B121
 Coppi, C., 4D53
 Coppi, S., 5B93
 Coppini, D., 5F18
 Coq, B., 2J33
 Coran, S. A., 2C36
 Coraor, R. J., 6H72
 Corbelli, L., 1J51
 Corbin, F. T., 4G15
 Corbyn, P. T., 3C81
 Cordonnier, P., 6D115
 Corey, E. J., 6D172
 Corina, D. L., 4C19
 Corke, C. T., 6G11
 Cornell, L. R., 1J184
 Corn, C., 5D23
 Cornea, F., 3C49
 Cormman, M. F., 6B39
 Corns, C. M., 2D18
 Cornu, G., 1D14, 1D255
 Corona, G. L., 5D132
 Correll, J. W., 2D136
 Corrie, J. E. T., 3D187
 Cortesi, N., 2C122
 Cosmi, G., 1D121, 2D140
 Cosovic, B., 5C68
 Cosson, R. P., 1D195
 Costa, G., 3F3
 Costa, M., 1D181
 Costello, P., 2D38
 Costov, I., 3H101, 6B112
 Cosyns, L., 3D87
 Cote, J. E., 3H43
 Cotgreave, I. A., 4D107
 Cotteau, D., 1D261
 Cotter, R. J., 2J143, 5J139
 Cotterrell, D., 4D289
 Cotton, D. B., 2D159
 Cotton, M. L., 5E29
 Couchouron, M. C., 3J7
 Coulet, P., 2J174
 Coullloch, J., 4D174
 Coupek, J., 1C26, 2J44, 5D155, 6J41
 Court, C. B., 2D298
 Court, W. A., 4D272
 Courtois, P., 2D80
 Coustal, S., 2D278
 Coutts, R. T., 1D281B
 Coverly, S. C., 4E29
 Covington, A. K., 2D43
 Cowe, I. A., 1J140
 Cowen, P., 2D203
 Cowens, J. W., 2D97
 Cowie, J. S., 1E59
 Cowper, C. J., 1C84, 3J49
 Cox, C., 6D230
 Cox, H. C., 2C25
 Cox, J. A., 1B32
 Cox, K., 6D170
 Cox, K. H., 2D160
 Cox, R. D., 1H29
 Cox, S. A., 4J123
 Coxon, D. T., 5G8
 Coy-Yll, R., 2B142
 Cozzoli, O., 4C69
 Crabb, J. W., 5D156
 Crabbe, P. G., 1E27
 Crabi, G., 5J133
 Crabtree, G. W., 4D118
 Craig, P. J., 5H99
 Craig, S., 5B188
 Crain, P. F., 1C16
 Cramers, C. A., 2J59
 Crane, L. J., 1J25
 Crane, R. T., 2D154
 Crathorne, B., 6H50
 Craver, C. D., 6A3
 Crawford, C. K., 3J101, 6J115
 Crawlhall, J. C., 1D263
 Creaven, P. J., 2D97
 Creekmore, J. R., 1E75
 Cremers, D. A., 2B36
 Crepaldi, G., 6D185
 Crescentini, G., 4H86
 Cresteil, D., 1D260
 Creten, W. L., 4D12
 Cretier, G., 1J24, 2J33
 Criddle, S. J., 1J8
 Criddle, W. J., 1E70
 Cridland, J. S., 2D63
 Crippin, P. J., 6D165
 Crisp, M., 4D325
 Crist, H. L., 1D111
 Cristiano, L. C., 2J105
 Critcher, E. C., 2E16
 Croce, L. C., 1C109
 Crock, J. G., 1B122
 Crocker, I. H., 1B94
 Crook, M. D., 1J8
 Crooks, C. R., 1D75
 Crooks, P. A., 3E65
 Crosby, D., 4D128
 Crosby, N. T., 1F2
 Crosset, M., 2J163
 Crouch, D. J., 5D51
 Crouch, S. R., 2B113, 2J8, 2J125 5D91
 Crovetto, G., 1E25
 Crow, F. W., 3D224, 4D136, 4J116
 Crowell, J. M., 2A25
 Crowley, C., 1F23
 Crowther, J. B., 1J39
 Crozier, D., 2C123
 Crump, G. B., 6C91B
 Csallany, A. S., 4D295
 Csapo, E., 3E11
 Csikkel, A., 6B113
 Csma, A., 5G37
 Cuber, J. C., 3F14, 3F15, 3F16
 Cucchi, M. L., 5D132
 Cueille, G., 4D227
 Cuisinaud, G., 1D126
 Culbertson, C. F., 2J19
 Cullinane, L. M., 5J24
 Cullmann, W., 3D256
 Cum, G., 1B203
 Cumming, L. B., 2J185
 Cummings, K. C., 1D102
 Cunliffe, B., 5D193
 Cunliffe, W. J., 2D238
 Cunningham, J. A., 1B33
 Cupps, T. L., 1D240
 Curini, R., 2E26, 5E19
 Currie, R. A., 5F22
 Currie, R. W., 1F21
 Curtis, R. M., 4J4
 Curvall, M., 1D109
 Curzio, O. A., 2F33
 Cusack, J. E., 1J83
 Cushing, K. M., 3J154
 Cushman, M. R., 1J106
 Cutrer, S., 6D170
 Cutshall, N. H., 3H56
 Cutter, G. A., 5B129
 Cuzner, M. L., 3D254
 Cvak, Z., 6F36
 Cyganski, A., 4D35
 Czae, M., 6J137
 Czapkiewicz, J., 2C38
 Czarny, Z., 3C18
 Czuderna, M., 3B117
 Czelankowski, W., 1C21
 Czerczak, S., 2C118
 Czernia, B., 2E18
 Czernuszewicz, R. S., 6J106
 Czerwinski, A., 2D215
 Czogalla, C. D., 6C47, 6C48
 Czucha, K., 1E47
 Czupryna, G., 2B134
 Dabhadre, S. B., 1B78
 Dachselt, C., 3J91
 Dadgar, D., 4D80
 Dadić, M., 5F61
 Daft, J. L., 4G24
 Dahl, S. G., 1D69
 Dahlberg, E., 4D7
 Dahlquist, F. W., 5D139
 Dahmus, M. E., 6D227
 Daidoji, H., 1B80
 Daigle, D. J., 3F7
 Daigle, M., 5D130
 Dailide, K. S., 6B52
 Daishima, S., 2H88, 3C64, 6C51
 Dalang, F., 1F11
 Dal Bo, L., 5D37
 Dale, A. D., 5J26
 Dalebroux, M., 4D240

- Daley-Yates, P. T., 6D121
 Dalla Fini, G., 3C8, 6C8
 Dallaire, L., 4D262
 D'Alterio, M., 1D59
 Dalton, J. L., 1B77
 Dalvi, A. G. I., 6B76
 Daly, P. J., 6J162
 Dalziel, J., 3D28
 Dalziel, J. A. W., 2J24
 D'Amico, A., 1B30
 Damokos, T., 3J152
 Damour, O., 2D242
 Damrauer, L., 5H15
 Dams, R., 2H47, 5J130
 Dancis, J., 4D202
 Danet, A. F., 3C58, 6H73
 Dang, H. S., 6D21
 Dangelmaier, C. A., 5D6
 Dangwal, S. K., 4H29
 Dani, H. M., 1D250
 Daniel, C. P., 1D97
 Daniel, J. Y., 6D153
 Daniel, L. G., 6H58
 Daniel, R. C., 3H93
 Danielson, N. D., 3J18, 5E39, 6D39
 Danielson, R. D., 2C16
 Danielsson, L. G., 1H50
 Danigel, H., 3J113, 5J54
 Danilevich, T. I., 5B135
 Danilov, I. P., 5B165
 Danilova, F. I., 1B27
 Danis, P. O., 1J171
 Danish, R. K., 3D185
 Danner, D. A., 2C86
 Dano, S. D., 4F47
 Danylewych, L. M., 3D11
 Danzaki, Y., 4B181
 Danzer, L. A., 6D61
 Daolio, S., 1J169, 2C36, 3J121
 Daoud, N. N., 3E65
 Dappen, G. M., 2D260
 D'Aquino, M., 6H64
 Darimont, T., 3H58
 Dark, W. A., 2C83
 Darney, K. J., jun., 2D180
 Daroczy, J., 4C44
 Darragh, A., 6D106
 D'Arrigo, C., 5H59
 Darwin, W. D., 4D49
 Das, A. K., 5B128
 Das, H. A., 5H104B, 6J121
 Das, J., 5B128, 5B151
 Das, S. R., 3B158
 D'Ascenzo, G., 5E19
 Das Gupta, V., 6E59
 Dashek, W. V., 3G4
 Da Silva, I. A., 5B15, 5B60
 Date, A. R., 2B98, 2J144, 2J145, 3J105
 Date, C., 4F8
 Datta, A., 4B146
 Datta, S. K., 3B15
 Daum, P. H., 3H42, 6H15
 Dauphin, C., 3C93
 Davankov, V. A., 1D173, 5D135, 5D136
 Daves, H. L., 2J141
 Davey, J. E., 3H39
 David, D., 1B132
 David, Dennis, 3D21
 Davidowski, L., 6B45
 Davidson, A. D., 5G16
 Davidson, A. G., 5E40
 Davidson, E. R., 2A22
 Davidson, I. E., 4E79
 Davidson, J., 1D2, 1D3, 4E34
 Davidson, M. S., 1G9
 Davidson, R. S., 1J144
 Davidson, W. F., 6B186
 Davidson, W. R., 3D11, 4D9
 Davies, C. J., 3D277
 Davies, D. J. G., 2E58
 Davies, D. S., 2D307
 Davies, J., 5D165
 Davies, L. P., 4D319
 Davignon, J., 2D288
 Davin, H., 4D132
 Davis, C. C., 5J9
 Davis, C. M., 3D92
 Davis, D. D., 1B63
 Davis, D. M., 3E41
 Davis, E. G., 5F67
 Davis, H. M., 1C94
 Davis, J. M., 1J30
 Davis, K. L., 2D100
 Davis, L. C., 5D153
 Davis, T. P., 5D60, 5D118, 5D174
 Davydov, V. A., 4J103
 Dawes, J., 3D155
 Dawra, R. K., 2D147
 Dawson, J. B., 2J101
 Dawson, P. A., 3C9
 Dawson, P. H., 1J164
 Dawson, R., 1H72
 D'Costa, M., 3D28
 De, A., 4J53
 De, M., 1E39
 Dean, B., 3D231
 De Andrade, J. C., 6B131
 De Angelis, G., 6C43
 De Backer, G., 1J13
 Debackere, M., 4D52
 Deban, L., 4F43
 De Beer, P. R., 5G25
 De Bernardi, M., 5D95
 Debets, H. J. G., 6J28
 Debetto, P., 4D281
 De Bievre, P., 2B24
 De Boer, A. G., 4D105
 De Boer, J. L. M., 6D15
 De Borger, R., 6D17
 Debowski, J., 1C1
 De Broe, M., 1D65, 2D292
 De Brou, G. B., 5H31
 Debruyn, L., 5D22
 Debska, W., 2E40
 Debus, H., 2J107
 De Buyzere, M., 6D180
 Decazes, J. M., 3D64
 Declercq, B., 6D180
 Dedieu, M., 1J167, 5J53
 Dedkova, V. P., 4B79
 De Donder, J., 5J130
 DeEchergeray, M. T., 6J30
 Deelder, R. S., 1J55, 2J34
 Deelstra, H., 5H75
 De Forest, P. R., 2J54
 De Galan, L., 1J43, 2J100, 2J114, 4C22, 5J39, 5J115, 5J127, 6J25
 Degawa, H., 2J172
 De Geer, L. E., 3H14
 Degen, G. H., 4G15
 Degetto, S., 4H52
 De Giovanni, N., 5E12
 De Goeij, J. J. M., 2D40
 De Greef, J. A., 1D234
 De Groote, G., 2D292
 Degtev, M. I., 1B59, 3B34, 3B36, 4B55, 5B58
 Deguchi, T., 2H70
 Degueldre, C. A., 6B73
 Dehennin, L., 2D70
 Dehm, C., 5H60
 Deikumhang, M., 6J121
 Dejmikova, E., 6G1
 Dejong, F. A., 5D214
 De Jong, G. J., 1D50
 De Jong, H. J., 4C29, 5C6
 De Jong, I. G., 6H42
 De Jonghe, E. J. M., 4D326
 De Jonghe, W., 3C79
 Dekazos, E. D., 4F53
 De Kempny, R. S. G., 5D27, 5D55
 Dekker, A., 5G38
 De Kleijn, J. P., 6F50
 De Klerk, A., 5G25
 De Klerk, M. V. D. S., 6H35
 De Kock, H. W., 1D249
 De Kok, A., 1J54
 De Kreuk, H., 5A23
 Delaage, M. A., 5D131
 Delafosse, B., 2D93
 De la Guardia, M., 1C76, 1C83, 2B30
 De la Guardia Cirugeda, M., 3C56
 De la Houssaye, B. A., 3D293
 Delaney, A. C., 1H18
 Delaney, F., 2C1
 Delaney, M. F., 1E77, 3A27
 DeLaurentis, M. J., 4D72
 Delaveau, P., 2F17
 Delbeke, F. T., 4D52
 Del Castillo, B., 1A13
 Delcourt, J., 3H24
 De Leenheer, A. P., 1D58, 1J182, 2D92, 2D182, 2D273, 4D52, 4D71
 De Leeuw, J. W., 2C25
 Deleu, R., 1G29
 De Levie, R., 2J181
 Delfino, G., 6D236
 De Ligny, C. L., 1H55
 Dellar, D., 5F3
 Delle Femmine, P., 1D20
 Dellefield, R. J., 1H88
 Delliou, D., 5E34
 Delmotte, Y. A., 3D204
 Del Nozal, M. J., 4F43, 4F58, 4F59, 5B59
 Delongchamp, R. R., 6J70, 6J71
 De Loose, R., 4D270
 De Loos-Vollebregt, M. T. C., 2J100, 5J115
 Del-Razo, L. M., 5D191
 De Luca, M., 4D14
 De Luca, M. A., 2D188
 Delves, H. T., 4D28
 Delvoye, P., 6F69
 Delwiche, E. A., 3J9
 Demack, P. N. M., 3D184, 4D265
 De Magistris, L., 1D198
 Demaille, J. G., 3D214
 DeMan, J. M., 6F39
 DeMan, L., 6F39
 Demanze, C., 1C89
 Demarchi, F., 5D95
 DeMarco, A. C., 3G33
 Demarcq, M. C., 1C36
 Demare, D., 3H44
 Demarin, V. T., 2J74
 Demedts, P., 6D55
 Dement'eva, N. N., 1E8
 Demyen, D., 3J81, 5J121
 Demers, L. M., 5D106
 De Meyer, L., 4D144
 Deming, S. N., 5J43, 6A9
 Demkin, A. M., 2B43
 Demkina, L. I., 1B201
 Demopoulos, C. A., 2D164, 5D111
 De Moreno, M. R., 6D53
 Den Boef, G., 1A8
 Deng, H., 5G2
 Den Hartigh, J., 5D72
 Deniaud, S., 2B69
 Denis, M., 4B151
 Denison, M. S., 5D204
 Denissen, A. E. H. C., 3D262
 Denisysuk, P. V., 6J78
 Denne, D. R., 2G12
 Dennis, T., 3D157
 Dennison, A. G., 2J115
 De Norre, L., 6B53
 Denton, M. B., 1C82
 De Pace, A., 1D108
 Department of the Environment [UK], 2H75, 4G7, 4H87, 4H88, 4H91, 5D178, 5H97, 5H101, 6J54
 De Pascale, A., 2H33
 Depeshko, Y. T., 2E29
 De Raaf, A. J., 6J20
 Derbyshire, F. J., 2C85
 D'Ercole, A. J., 1D189
 Derde, M. P., 1A6
 Deres, J., 3D122
 Derkach, Yu. F., 1B114
 Derks, H. J. G. M., 2D98
 De Robertis, A., 1B176, 5H59
 DeRose, A. J., 3J49
 De Ruiters, C., 1D50
 Derzhitskaya, V. I., 3J78
 Desage, M., 2D78, 3E40
 Desai, B. N., 3H54
 Desai, H. B., 6B103, 6D21
 Desai, K. R., 4B188
 Desai, N. C., 2C40
 Desalvo, A., 1B208
 Desbarres, J., 4D182
 Desbene, P. L., 1J49, 2D278
 De Schepper, D., 4F26
 Deschner, R., 6E4
 Descomps, B., 2D31
 Desev, G., 3D241
 Deshmukh, G. D., 3D171
 Deshmukh, G. S., 1B65
 Deshmukh, P. P., 3D227
 Deshpande, C. M., 4G17
 Deshpande, D. S., 4E24
 Desideri, P. G., 5D129
 Desiderio, D. M., 1D185, 6D222
 Desikam, N. R., 4B21
 De Silva, J. A. F., 4D47
 De Silva, K. N., 4D17
 Desimoni, E., 2H13
 DesLauriers, P. J., 2J21
 Desnick, R. J., 5D206, 5D231, 5D232
 Desnouveau, R., 1F28
 De Souza, L. G., 4F22
 Desreux, J. F., 2A13
 Des Rochers, M., 4D262
 Desrousseaux, B., 4D56
 Dessensberger, C., 2H29
 Dessy, R. E., 2A27, 2H48, 2J9, 5A26
 DeStefano, J. J., 1C111, 5J41
 Detavernier, R., 5F21
 Dettbarn, G., 6H29
 Dettmer, R., 1D213
 Deuretzbacher, G., 6B89
 Deutry, J., 5F38
 Deutsch, E., 4B157
 Deutsch, R. D., 4J88
 Deutsche Gesellschaft fuer Fettwissenschaft, 5C87
 Deutscher, H. J., 3C51
 Deva, M. M., 6B162
 Devant, G., 3C78, 3J123
 De Vazelles, R., 3C71
 Devenyi, N., 1D179
 De Verdier, C. H., 1D232
 Devienne, F. M., 3C26
 DeVilbiss, E. D., 3C17
 De Vilder, J., 6F37
 Devillers, P., 5F21
 De Villiers, L. S., 1D215
 Devine, J., 1J63
 Devinsky, F., 3C38
 De Vries, E. J., 6G20
 Devyatova, T. M., 5A22
 Devyatikh, G. G., 6B190
 Devynck, M. A., 1D164
 Dewaele, C., 1F44, 5J40, 6F60
 De Waele, J. K., 3H12, 4C5
 De Waele, M., 1D65, 6D55
 De Waele, P., 2D292
 Dewald, H. D., 2B99, 6J168
 Dewalt, F. G., 6J87
 De Weert, G. A., 2D92
 DeWitt, W. J., 4C63
 Dexter, D. L., 4D118
 Deyman, M. E., 4D71, 5D51
 Deyrup, C., 4D332
 De Zaiacono, T., 1H6
 De Zeeuw, R. A., 2E3, 2J49, 6D103
 Dhandayutham, R., 6H9
 Dhar, M. L., 4B5
 Dhar, T. K., 4D177
 Dhobale, A. R., 5B88
 Dhondt, J. L., 3D153
 Diamandis, E. P., 2D206, 6D146, 6D160
 Diamantatos, A., 4B22, 4B45
 Diamond, I., 4D118
 Diana, P., 3G35
 Diaz Marot, A., 3F47
 Dibrova, A. K., 3C100, 3C105
 Di Cairano, G., 3D282, 3D283

- Di Casa, M., 1B106
Di Cesare, J. L., 4F71, 5F6
Dick, J., 3F43
Dickens, B. F., 1D131
Dickerson, R. R., 1H18
Di Corcia, A., 1D121, 2D140
Didden, C. B. M., 2J34
Didenko, P. J., 3B179
Didorenko, T. O., 5B108
Didriksson, R., 1G4
Diehl, K. H., 5H5
Dienstbach, F., 3B72, 6D29
Dierckxsens, G. C., 4D144
Dieringer, C. S., 1D238
Dieterle, F., 4D110, 4D111
Dietrich, P., 6C12
Dietz, C., 5E2
Dietz, H., 4D85
Dietz, M., 3D110
Dietz, M. L., 5G15
Dietzel, B., 2C61
Dietzler, D. N., 1D52
Diez-Masa, J. C., 4C1
Di Ferrante, N., 5D92
Di Giulio, S., 4D227
Dilena, B. A., 3D243
Dilks, C. H., jun., 1J200
Dill, C. W., 3F2
Dilli, S., 1B12
Dillon, K., 2C56
Dilworth, W. F., 2C80
Di Mauro, P., 5J87
Dimitrova, A. D., 1B123
Dimitrova, M., 2A21
Dimitrova, Zh., 3B115
Dimmel, D. R., 2C104
Dimov, N., 2A21, 5J92
Dimov, V., 4D68
Dincler, G., 5B66
Ding, C. P., 3G7
Ding, J.-Q., 1J195, 1J196
Ding, X.-D., 4D119
Ding, Yanfen, 1E26
Ding, Yueying, 6E58
Dingjian, H. A., 5C6
Dinse, H. D., 2C108, 2C120, 5C83
Dinsmore, R., 3D67
Di Nunzio, J. E., 1B25, 6J44
Dionysopoulos, G., 5F71
Di Paolantonio, C. L., 6J154
Di Paolo, T., 5D130
Di Pietra, A. M., 1E9, 3E73
Diquet, B., 1D93, 4D102, 5D73, 6D84
Dirschel, A., 1C14
Disanzo, F. P., 1C73
Diserens, J. M., 4F50
Ditschuneit, H., 2D166
Ditzler, M. A., 5B4, 6A22
Diven, W. F., 5D35
Dixit, A. S., 6D133
Dixon, D. J., 5J52
Di Zerega, G. S., 6D224
Djonlagic, N., 1E62
Dmitrenko, L. V., 2D216
Dmitriev, M. T., 6H1, 6H30
Dmitrovic, R., 2J84
Doare, L., 6D84
Dobashi, Y., 2D61
Dobberstein, P., 3J30
Dobbins, M. F., 2D156
Dobcnik, D., 4A19
Dobo, R., 2C79
Dobrev, M., 1B104
Dobricic, M., 1B120
Dobrozemsky, R., 2J139
Dodin, E. I., 3B28
Dodonov, A. A., 3C59
Dodoo, D. K., 2H62
Dodson, M. L., 1D228
Dodson, R. F., 5D23
Doehler, R., 2C2
Doemling, H. J., 2C125
Doerenkaemper, B., 4C7
Doerffel, K., 3H16
Doering, R. F., 6H15
Doetsch, K., 3D1
Dogadkin, N. N., 5B56, 5B107
Dogru, C., 5C74
Dohi, J., 5J31
Dohnal, J. C., 2D265
Doi, M., 4B14
Doi, Tadashi, 1C46, 2J22, 5J36, 6J27
Doi, Takayoshi, 2D15
Dojiri, S., 4B101
Do Khac Hieu, 3D70
Dolaberidze, L. D., 2B50
Dolby, G. R., 1G14
Dolgi, S. I., 5H11
Doigorukov, A. S., 1B138
Dolgushina, L. E., 1H63
Dollery, C. T., 2D149
Dols, J. L. S., 3D292
Dolunts, D. G., 3C35
Domeij-Nyberg, B., 3D117
Dominguez-Gil, A., 4D104
Do Minh Vung, 5B48
Domnas, A. J., 2D170
Domokos, L., 6A28
Donaldson, V. H., 4D331
Donaldson, W. E., 5D167
Donath-Jobbagy, A., 1F53
Dondii, F., 2H81, 5B93
Doner, L. W., 2E6
Dong, M. W., 4F71, 5F6
Dong, S., 1J199, 4B198
Donivan, S., 2B106
Donkerbroek, J. J., 1C55, 3C60
Donohue, D. L., 2B82, 3B68
Donselman, H. M., 4D212
Donskova, A. P., 5B63
Doolittle, R. E., 2J66
Doorenbos, H. J., 4E81
Doornbos, D. A., 6J28
Doose, G. M., 2G13, 2G17, 2G18
Dorado, M. T., 2B100
Doran, T. A., 2D253
Doree, G., 5D121
Dorhofer, G., 4D203
Dori, L., 2B103
Doring, D., 5A17
Dorn, H. C., 3C74
Dorner, W. G., 2E64, 2H4, 6E54, 6J40
Dorogova, V. B., 5H34
Dorokhova, E. N., 4B179
Doronina, L. A., 3B102
Dorosiev, I., 6E15
Dorsey, E. D., 3E78
Dorsey, J. G., 2J20, 3E36, 6J30
Dorwart, W. V., 6D148
Dose, E. V., 4E22
Dose, K., 2F18
Dossi, G., 2D112
Dost, J., 3H16
D'Ottavio, D., 3D208
D'Ottavio, T., 6H15
Douglas, D. J., 1J164, 2J146
Douka, C. E., 6D19
Doumas, B. T., 2D259
Douse, J. M. F., 2C128
Dousset, J., 3D64
Dousté-Blazy, L., 5D218
Douville, P., 4D11
Dovich, N. J., 4J72, 5C73
Dowdy, E. J., 4J122
Down, G. R. B., 5E29
Downes, M. J., 2F63
Downes, R. W., 3G3
Downum, K. R., 4D149
Dowsett, M. G., 1J163
Doyle, M. J., 1D196
Doyle, T. D., 4E48, 5E15
Drabaek, I., 3H74
Drachsel, W., 3J111
Dräger, B., 4D168
Draghici, M., 4C75
Drago, M., 4G18
Dragoni, F., 1J156, 3J121
Draper, H. H., 3G22
Drash, A. L., 2D115
Draskovits, I., 1F40
Draviam, E. J., 4D134
Drayer, D. E., 2D67
Drdak, M., 1F36
Dreesen, R., 6D264
Dreher, M. L., 4G3
Dreijer-Van der Glas, S. M., 4C29
Dreisch, F. A., 3H72
Drenth, B. F. H., 3J31, 5J55
Drescher, A., 4B53
Dressler, M., 6J65
Dreux, C., 5D77
Drew, P. K. P., 4J45
Dreyer, B., 1J34
Dreyer, R. N., 2J18
Dreznier, M. K., 4D312
Drigo, A. V., 1B208, 3B89
Drille, M., 5B183
Dris, M., 1J184
Driscoll, J. N., 5C24
Drobinina, A. G., 3B91
Drobnik, J., 3D52
Droese, B., 3F32, 3F33
Drost, R. H., 1D61
Drouen, A. C. J. H., 1J43
Droz, C., 1F50
Droz, A. V., 1B162
Droz, J., 1J69
Drozdetskii, A. G., 6C24, 6C25
Drucker, D. B., 6D195
Drugov, Yu. S., 5H10, 5H13, 5H30
Druon, M., 3C56
Druyan, E. A., 1D104
Dryden, P. C., 1J84
Dryon, L., 1J13, 5F30, 6E25
Drysdale, J. M., 3D18
Drzkova, L., 3C37, 3C57
D'Silva, A. P., 2C55
D'Souza, J. P., 2D38
Du, J., 4E40
Du, T., 1C128
Du, Xianzhang, 2B59
Du, Xiaoying, 1E72
Du, Xiuyue, 4J133
Dube, V. E., 6D149
Dubey, G. R., 3E70
Dubinina, L. F., 4B19
Dubnack, J., 6B91
Dubois, G., 2F28
Dubois, J., 4H3, 5H17
Dubois, J. E., 1C19
Dubovenko, L. I., 4B38
Dubowitz, V., 4J56
Dubsky, H., 4D127
Dubyna, A. M., 1J60
Ducauze, C., 4H76
Duch, D. S., 5D190, 6D263
Ducharme, G., 4D262
Duchatel, J. P., 3D74
Duck-Chong, C. G., 5D109
Dudas, M. J., 6G8
Duedall, I. W., 6B188
Duesch, M. E., 1G35
Dufaux, B., 1D216
Dufek, P., 3C54
Duffield, A. M., 2D133, 2E17, 2E49, 5E10
Duffus, C. M., 1G3
Duffy, M. J., 2D218
Dugain, F., 1B55
Dugandzic, M., 2E55
Duggan, J. L., 5A4
Duimakaev, Sh. I., 6B4
Duke, D. L., 4H17
Dukhardt, L. N., 1E1
Dukwicz, A., 3G16
Dully, K. M., 3J99
Dulski, P., 1B192, 1B193
Dumbroff, E. B., 2G8, 4D243
Dumbroff, P. A., 2G8
Dumitrescu, P., 4C75
Dumoulin, C. L., 4J98
Dunberg, A., 1G23
Duncan, B. M., 1D13
Duncan, H. J., 3G28
Duncan, W. P., 6A2
Dunckova, E., 3E2
Dunemann, L., 6D42
Dunken, H. H., 5B180
Dunlop, G. J., 2D30
Dunn, B. M., 4D332
Dunn, D. L., 3E78
Dunn, M. J., 4J56
Dunn, T., 5F25
Dunsch, L., 3C110
Duobinis, N., 1A25
Dupon, M., 1D234
Dupont, A., 5D130
Dupont, G., 3D319B
Duppel, W., 2D233
Dupras, R., 4D169
Dupre, S., 3D291
Dupuis, L. T., 3B56
Durand, J. P., 1C78
Durante, M., 5D189
Durden, D. A., 6D163
Durisova, M., 4D108
Durkin, F., 1B41
Durrant, T. E., 1D17
Durrington, P. N., 3D180
Durve, A. K., 3C61
Duschner, H., 2J137
Duthie, A. H., 4F46
Duthie, I. F., 2F62
Dutrieu, J., 3D204
Dutt, A., 5B83
Duursma, R. P. J., 2J12
Duyckaerts, G., 2B10, 4H45, 5B78
Dvorak, B., 5B185
Dvorsan, A. G., 5B61, 5B106
D'yachenko, N. A., 3B150
Dyck, W., 1B131
Dye, D. M., 5D71
Dyer, J., 1D161
Dymerski, P. P., 4H70
Dymova, M. S., 4B176
Dzhalalova, P. N., 4H46
Dzhaliashvili, A. G., 2B50
Dzhiyanbaeva, R. Kh., 5B6
Dzido, T., 5J56
Dziedzic, P. J., 1J173
Dziunikowski, B., 6B185
Dziwinski, E., 3C52
Eadie, T., 3G4
Eagles, J., 6D178
Earp, R. F., 1H29
East, G. A., 5B15, 5B60
Eaton, D. K., 6D35
Eaton, H. G., 2H23
Eaton, R. P., 2D267
Eaton, W. S., 1B71
Ebdon, L., 5B13
Ebel, H., 2J88
Ebel, S., 1J18, 6E23
Ebenhack, K., 6D170
Eberhart, S., 6E36
Ebering, W., 1G1
Eccleston, G. W., 3B82
Echo, M. W., 3J94
Echols, R. E., 6F9
Eckers, C., 3D73, 3J26
Eckfeldt, J. H., 6D80
Eckhard, A. E., 1D280
Eckhoff, M. A., 6J66
Ecknig, W., 1C71
Edelman, J., 1D166
Edelson, J., 5D67, 6D127
Edge, M. D., 3D273
Edholm, L. E., 1D85, 3D98
Ediger, R., 2A28, 6H45
Edman, D. C., 6D2
Edouard, L., 1D193
Edstrom, R. D., 2H82
Edward-Inatimi, E. B., 2H43, 2J24
Edwards, A. D., 3H39
Edwards, D. J., 1D100
Edwards, G. C., 4D4
Edwards, J. B., 2D143
Efimov, I. P., 3C30
Efryushina, N. P., 4B86
Efsthliou, C. E., 6D146
Egawa, H., 1B139
Egberts, J., 2D161
Egermaierova, J., 2B164, 4B196
Egerts, V., 1C104
Eglington, G., 1C68
Eglite, G., 5B145
Egorin, M. J., 5D40

- Egorov, V. V., 3C36
 Egsgaard, H., 2B79
 Egutkin, N. L., 4E26
 Ehntholt, D. J., 2H76
 Ehrlich, K. C., 5G11
 Ehrlich, S., 6B182
 Ehrlich, S. H., 2C111
 Ehrsson, H., 6D64
 Eichelsdoerfer, D., 6H52
 Eichhorn, K. W., 2G19
 Eicke, A., 4D300
 Eid, M. A., 5B76
 Eiden, F., 4E62
 Einolf, W. N., 2D109
 Eiseman, I. A., 4J18
 Eisenbeiss, F., 3E22
 Eisenman, J. R., 2D245
 Ejaz, M., 3B61
 Ejiri, M., 2D299
 Ek, K., 4J57
 Ekins, R. P., 6A4
 Eklund, A., 3D54
 Eksborg, S., 6D64
 Eksperandova, L. P., 1B21
 Ekstrand, J., 6D43
 El Anay, F. A., 5B76
 El Behery, K. M., 5B76
 Elchisak, M. A., 1D159
 Elchuk, S., 6B20
 Elder, G. H., 5D229
 El-Dessouky, M. M., 6B100
 El-Din, A. S., 6E19
 El-Fatry, H. M., 4E41
 Elghozi, J. L., 1D164
 El Hag, I. H., 3J85
 El-Hofi, S., 4E58
 El-Hossny, T., 4E45
 El-Kafrawi, A. Z., 1C10
 El-Khateeb, S. E., 4F64
 El'kin, Yu. N., 6C18
 El-Kommos, M. E., 1E61, 3E62
 6E8
 El'ksnina, Zh. V., 6C14
 Ellaithy, M. M., 4E76, 4E78
 Ellgren, A. J., 2B158
 Ellingson, J. D., 5D118
 Ellington, J. C., jun., 6D179
 Elliot, D. A., 1J134
 Elliott, G. L., 3G14
 Elliott, W. H., 5D207
 Ellis, J., 4H48, 6D239
 Ellis, J. P., jun., 2D197
 Ellis, R., 3A25
 Ellis, S., 6J68
 Elmer, G. W., 4D81
 El-Naggar, H. A., 6B161
 El-Nasser Osman, A. R., 3E51
 El'nazarov, S., 5B46
 El-Raghy, N. A., 4F64
 El-Sabbagh, H., 6E57
 El-Samman, F. M., 3C48
 Elsayed, M. A. H., 3E10
 Elsdon, W. L., 1C115
 El-Seify, F. A., 4A12
 Elsingher, R. J., 1H59
 Elsirafy, A. A., 3A18
 Elsner, O., 1C101, 2C106
 Elson, C. M., 4F68
 El-Tarras, M. F., 4E76, 4E78, 4F64
 Elyashberg, M. E., 4A27
 El Zahaby, M., 3E51
 Emelyanov, I. D., 3J48
 Emerick, R. J., 4D37
 Emery, J. F., 3A29
 Emmanuel, J., 4E51
 Emons, G., 2D179
 Endeman, H. J., 1D122
 Endo, Yasuo, 3D289
 Endo, Yoshide, 6B152
 Endo, Yuichi, 4D248, 4D253
 Endres, W., 1D247
 Engelhardt, H., 1J34
 Engelmann, C., 1D19, 3B106
 Engels, H., 6D36
 Engels, M., 5D63
 Engels, S., 6B191
 Engfeldt, B., 4D143
 Englebienne, P., 1D10
 Enke, C. G., 3J124, 4H11
 Enomoto, A., 4F16
 Enzell, C., 1D109
 Epifanov, V. S., 1B138
 Eppert, G., 4C28
 Eppig, C., 2H76
 Eppig, H. J., 5B113
 Eppler, H., 2J138
 Epstein, E., 3D176
 Epstein, M. S., 4C51, 6J83
 Era, V. A., 1C121
 Erasmus, C. S., 3B12
 Eravuo, K., 6C75
 Erbe, I., 2D257
 Erbersdobler, H. F., 1F27
 Erdahl, W. L., 1D128
 Erdman, J. W., jun., 5D173
 Erdmann, D. E., 5H83
 Ereemeev, A. P., 1A15
 Erguven, H., 6E52
 Erickson, P. F., 3D222
 Ericson, A., 1D232
 Ericson, J., 1J57
 Ericsson, M., 2J47
 Eriksson, H., 1D12
 Eriksson, R., 1J57
 Eriomenko, V. M., 1J153
 Erlandson, R. F., 6J19
 Ermakov, A. A., 3B93, 5C2
 Ermakov, V. A., 5C33
 Ermakova, L. V., 2B29
 Ermer, E., 5E36
 Ermolaeva, G. M., 5B114
 Ermolaeva, T. N., 5B44
 Ermolenko, Yu. E., 3B31
 Ernes, D. A., 4C81
 Ernst, D. E. W., 3H82
 Eroshenkova, G. V., 6J61
 Eroshina, O. I., 3C4
 Ershova, N. S., 1B74
 Ertan, G., 2E32
 Esahi, M., 3D25
 Esala, S., 3D45
 Esashi, M., 2J162
 Esders, T. W., 4D198
 Eskay, R. L., 1D181
 Esmaelzadeh, A., 4D275
 Esmans, E. L., 6D260
 Esmen, N. A., 5J5
 Espie, N., 3J130
 Espiner, E. A., 2D183
 Espinosa Mansilla, A., 4B36, 5B164
 Esposito, F., 4D286
 Esposito, G. G., 6H28
 Estela, J. M., 2B26, 2B115, 5B141
 Esterbauer, H., 2C101
 Estes, S. A., 2H102, 2J72
 Estevenson, J. P., 6D238
 Estienne, J., 4B52, 4J30
 Etcheto, M., 1J82
 Etheridge, M. O., 5F34
 Etter, R., 6F13
 Ettre, L. S., 2C63, 5C53
 Evans, A. L., 2D30
 Evans, C. A., jun., 4J80
 Evans, J. H., 5D32
 Evans, M. J., 5D170
 Evans, S., 5J95
 Evans, Sydney, 3B171, 3J27, 3J109
 Evans, W. E., 6D69
 Evans, W. H., 4F6
 Evens, R., 3H91
 Evenson, M. A., 3D53
 Everaerts, F. M., 5J71, 5J72
 Everett, A. W., 4D255
 Everett, C. F., 3G33
 Everett, G. W., 1C97
 Everett, K., 4A28
 Evershed, R. P., 1C68, 5D93
 Evich, N. I., 6E31
 Evrard, P., 3D74
 Evstigneeva, R. P., 3C96
 Ewald, M., 3C71, 6H55
 Ewen, G. J., 6J92
 Ewing, L. L., 2D180
 Ewins, J. H., 4J124
 Eyring, E. M., 6A15
 Eze, J. M. O., 4D243
 Ezerskaya, T. V., 5H78
 Faanhof, A., 5H104B
 Faas, L., 2H94
 Fabec, J. L., 1C86, 2B162
 Fabre, H., 2E34
 Fachinger, C., 4H78
 Facklam, C., 2J23
 Faerman, V. I., 6J10
 Fagerlund, C., 6D78
 Fageron, I. S., 1F7
 Faggini, M., 4H52
 Fagioli, F., 4D19
 Fagnrikh, V., 6H31
 Faguer, P., 4D227
 Fahlgren, C. H., 3G37
 Fahr, F., 6E40
 Faigle, J. W., 4D110, 4D111
 Fain, E. E., 6B144
 Fain, L. N., 5H23
 Fairbanks, V. F., 3D286
 Fairies, L. M., 5J124
 Faith, L., 2E56, 3C38
 Faithfull, N. T., 5J113
 Fakeeva, D. A., 1B79
 Fakeeva, N. V., 3C99
 Fakeeva, O. A., 3B108
 Fakhru-Aldeen, R., 6J95
 Fakhry, A. A., 5B76
 Falbo, L., 3H37
 Falconer, A. D., 4D197
 Falendysh, E. R., 5A6
 Fales, H. M., 3J101, 6J115
 Fales, S. L., 4G10
 Falk, H., 1J113
 Falk, O., 6D216
 Falkner, F. C., 2D73
 Fallick, A. E., 4B105, 4J106
 Falvay, G., 3D79
 Falzot, M., 6D132
 Fan, Chongyang, 6F71
 Fan, Cunzhong, 6B41
 Fan, Jian, 6B133
 Fan, Jiuji, 3E15
 Fan, X., 2A19
 Fang, Q., 6E20
 Fang, Xian'an, 3B63
 Fang, Xuejun, 6C39
 Fang, Z., 6H44
 Fang, Z.-L., 1H70
 Fara, G., 1J59
 Farag, R. S., 1F31
 Faraj, B. A., 4D298
 Farant, J. P., 1D36
 Farcasu, M., 2C85
 Farias, C. M., 3C61
 Farid, Y. Y. Z., 6D122
 Farish, E., 6D184
 Farley, D. B., 2D177
 Farmanian, P. A., 3C89
 Farndale, R. W., 2D125
 Farne, G., 6H67
 Farooqui, W. U., 2D212
 Farrar, R. B., 2B77
 Farrell, B. M., 4D106
 Farrell, T. J., 6C31
 Farriaux, J. P., 3D153
 Farrington, D. S., 3G41
 Farrokh, S. R. B., 5J5
 Fartushnyi, A. F., 2E48, 6D139
 Fasano, R. E., 5H27
 Fashing, C. E., 1D56
 Fassel, V. A., 2C55
 Fassett, J. D., 4J114
 Fateeva, V. M., 1J75, 2J64
 Faucher, M., 4H37
 Faull, K. F., 3J58, 3J112, 5J52
 Faulstich, H., 5D89
 Faust, S. D., 3H61, 3H62
 Favini, G., 2C122
 Favorskaya, I. A., 6D190
 Fazakas, J., 1B75, 3B35, 5B167, 5J114, 6B47
 Fedeli, E., 1F55
 Federici, G., 3D291
 Fedonina, V. F., 4H73
 Fedorkina, S. G., 3C106
 Fedoroff, M., 6J123
 Fedorov, L. A., 4A22
 Fedorov, P. I., 5C49
 Fedorov, V. V., 1B74
 Fedoruk, O. G., 2B166
 Fedotova, I. A., 1B27
 Fedotova, N. P., 6B90
 Fedotova, N. S., 1B69
 Fedtke, M., 1C119, 2C117
 Feeney, C. M., 6B75
 Feenstra, M. G. P., 6D129
 Feher, Z., 1E5, 3J151, 6J127, 6J128
 Fehsenfeld, F. C., 6H13
 Feigl, P., 1J154
 Feignoux, G., 4D174
 Feingold, D. S., 5D235
 Feist, U., 3C110
 Fekete, J., 3E16
 Feldhaus, R., 4J9
 Feldman, L. C., 1J178
 Felicito, N. R., 1F23
 Felix, R., 5D102, 5D160
 Fell, A. F., 1J50, 3D6, 4E64, 4J39
 Fell, G. S., 1D40
 Fellin, R., 6D185
 Fellows, W., 2D259
 Feng, D., 4B133, 6J145
 Feng, L., 2D221
 Feng, M., 2D264
 Feng, P., 3D151
 Feng, P. C. C., 5D8
 Feng, Yaping, 4B126, 6A20
 Feng, Yuanhuang, 5G31
 Fenimore, D. C., 3D92
 Fennessey, P. V., 5D113
 Fenselau, C., 2J143, 3D151, 5D8
 5J139
 Fenwick, G. R., 5G6, 6D178
 Feraudi, M., 4D13
 Ferioli, P., 4J69
 Fernandez, A. A., 2D12
 Fernandez, C., 2D56
 Fernandez, H., 6E37
 Fernandez, P., 1D46
 Fernandez-Band, B. S., 5H79
 Fernandez-Bolanos, J., 4F52
 Fernandez-Diez, M. J., 4F52
 Fernandez-Gutierrez, A., 1B50, 2B28, 5A16
 Ferrari, G., 4C71
 Ferrari, M., 6D109
 Ferraro, J. R., 1J179B
 Ferre, R., 6D18
 Ferreira, N. P., 6J93, 6J94
 Ferreira, P., 2D47
 Ferrer Martin, M., 3F47
 Ferrett, J., 5D82
 Ferretti, A., 2D152
 Ferretti, C., 6B86
 Ferri, D., 5B95
 Ferris, J. A., 2D22
 Ferro-Garcia, M. A., 6J74
 Feshchenko, I. A., 2C72, 5C25
 Fetterolf, D. D., 4J115
 Fetzer, J. C., 4C52
 Feuge, R. O., 6F70
 Feyen, J. H. M., 4D324
 Ficklin, W. H., 5H72
 Fidanza, J., 3E68
 Fidelis, I., 3B80
 Fiebig, D., 6C76
 Fiedler, D., 1D213
 Fiedler, H., 2D266
 Fielden, P. R., 4J45
 Fielding, B. A., 2D251
 Fielding, M., 6H50
 Fields, B., 2B154
 Fiers, W., 2D292
 Figarella, C., 6D238
 Figueras, J., 2A30, 4D198
 Figurovskii, N. A., 4J2
 Fijalek, Z., 3E59, 3E60, 3E61, 4D113
 Fik, M., 2F23
 Filby, R. H., 1C67
 Filer, L. J., jun., 3D209
 Filidovic, N., 4D330
 Filion, A. M., 4D169

- Filip, J., 6D67
 Filippenko, N. P., 1J7, 6C14
 Filippov, Yu. S., 3E81
 Filliatre, C., 3C113
 Findlay, J. W. A., 3D96
 Fine, D. H., 1C34
 Fink, M., 1D277
 Finkelman, F., 5D164
 Finkle, B. S., 4D71, 5D51, 6D47
 6D48
 Finkle, H. I., 5D31
 Finley, P. R., 2D240
 Finot, P. A., 3F8
 Finster, P., 5D3
 Fiocca, F., 5D36
 Fiore, C., 6D119
 Fiorentino, P., 2F14
 Fiorese, F., 4E38
 Fioshin, M. Ya., 6C44
 Firestone, D., 6F32
 Firth, B. M., 5F37
 Fischbach, H., 3B144
 Fischer, G. A., 3H69
 Fischer, H. J., 4H53
 Fischer, L., 2D13
 Fischer, P. T., 2B158
 Fish, B. J., 4E75
 Fisher, B. R., 5D163
 Fisher, J. F., 1F42
 Fishman, I. S., 3J73
 Fitchett, A. W., 2C103
 Fitz, H., 2D79, 4D96
 Fitzgerald, E. A., 4C89
 Fitzlaff, R., 4D85
 Fitzpatrick, J., 4D57
 Fjeldsted, J., 3J35
 Fjeldsted, J. C., 5C82
 Flachaire, E., 2D242
 Flachowsky, J., 6B89
 Flamerz, S., 3C34
 Flanagan, R. J., 1D87
 Flanagan, V. P., 2D152
 Flatmark, T., 3D279
 Fleet, B., 4J138, 5C36
 Fleisch, H., 5D102
 Fleischmann, M., 1J145
 Fleser, J. M., 1B195
 Fletcher, C. D., 6D184
 Flink, J. M., 5F54
 Flint, O. F., 5F37
 Flint-Hansen, P., 2D257
 Flis, B. I., 5B124
 Floch, H. H., 6D153
 Floering, D. A., 4D10
 Flor, S. C., 3D132
 Florence, T. M., 4H48
 Flores, O., 2D19
 Florey, K., 2E71B
 Florian, K., 1J124
 Floyd, M. A., 2B77
 Flyantikova, G. V., 2B48
 Foa, V., 4D153
 Foda, A., 6E57
 Fodor, M., 2D36
 Fodor, P., 2D36, 2D37
 Fogg, A. G., 4B115, 5F13
 Fogier, H. S., 6J175
 Fogy, I., 6A7
 Foldes, O., 3D217
 Follath, F., 5D39
 Foltmann, B., 6D288
 Foltz, R. L., 4D76, 5D42
 Foner, H. A., 6B182
 Fong, G. W. K., 1E35
 Fong, H., 3D259
 Fong, M. H., 5D58
 Fong, W., 1B198
 Fontani, F., 1E67
 Foo, A. Y., 3D304
 Foote, J. W., 4D28
 Forbus, W. R., 6F49
 Forbush, B., III, 3D316
 Force, R. K., 3J70
 Ford, A., 1D3
 Ford, B., 6D51
 Ford, C. W., 3G21
 Ford, M. A., 5A25
 Forder, R. A., 5D107
 Forest, J. C., 4D11
 Formacek, V., 4C92B
 Forman, W. B., 6D79
 Formignani, M., 1H6
 Fornwalt, D. E., 2B157
 Forrest, J., 1H20
 Forrester, A. T., 4J112
 Forsman, A., 6D91
 Forsman, U., 2E23
 Forster, R. A., 2D238
 Foss, G. O., 4H42
 Foster, C. L., 5G23
 Foster, M. G., 2H83, 5H47
 Foulstone, M., 6D60
 Fournier, L., 1D180
 Fourtillan, J. B., 2D80, 5D66
 Fowler, A., 6B95
 Fowler, W. K., 2H79, 4H18
 Fox, A., 2D121
 Fox, W., 2D277
 Frachon, M., 3D47
 Fraga, F. A. F., 2A26
 Frahn, D., 3E1
 Fraisse, D., 1D252
 France, S. W., 2B84, 4B104
 Franceschetti, D. R., 2B23
 Francis, O. J., 5G21
 Francis, T. B., 3D269
 Franco, M. R. B., 3F45
 Franey, C., 2D203
 Frank, A., 2D35
 Frank, A. S., 5D9
 Frank, E., 3F38
 Frank, H., 6D211
 Frank, I., 1F53
 Franke, J. P., 2E3, 2J49
 Frankel, E. N., 5F72
 Frankenberger, G., 3D70
 Franklin, G. O., 2C103
 Franklin, M., 2D203
 Frankovskii, V. A., 1B88
 Franks, J., 3J116
 Franzini, C., 4D274
 Franzke, C., 4F70
 Frappier, F., 1D252, 2D278
 Fraser, A. D., 6D88
 Fraser, B. A., 5D148
 Fraser, C. G., 3D243
 Fraser, G. C., 1D13
 Fraser, I. S., 2D181
 Fraser, M. E., 2C44
 Fraser, S., 2D203
 Fraticelli, Y. M., 4D218
 Frattini, P., 5D132
 Frauenhoffer, S. M., 4D86
 Frazer, J. F., III, 5D30
 Frazer, J. W., 5A30, 6J169
 Frazzini, T. L., 4B99
 Frech, W., 2J102
 Frederickson, C. J., 1D30, 6D28
 Frederickson, M. H., 1D30
 Freedman, P. A., 1J134
 Freeman, D. H., 3J16
 Freeman, D. J., 2D74
 Freeman, N. M., 2D300
 Freeman, N. T., 3A33B
 Freese, J. W., 2H69
 Frei, R. W., 1C55, 1D50, 1D90,
 1H77, 1H78, 3C60, 3D211,
 4J47
 Freier, E. F., 2D189
 Freiha, B. A., 6J163, 6J165,
 6J166
 Freimanis, J., 3E33
 Freiser, B. S., 1J174, 4C34, 4J109
 5J140
 Freiser, H., 1D114, 2B73
 Freisheim, J. H., 3E69
 French, J. B., 1J164
 Friend, A. J., 3J135
 Frenzel, P., 6B189
 Frenzel, W., 3B53
 Freshour, N. L., 4D130
 Fretheim, K., 6F29
 Freudenthal, J., 2D98, 3J96,
 4H84
 Freudiger, H., 5D102
 Frey, H., 1D262
 Frey, H. P., 2J48
 Frey, R. M., 3C85
 Frey, U., 1J98
 Freyer, K., 6B89, 6B91
 Freymann, E., 4D181
 Fric, F., 5G3
 Frick, D. A., 3C67
 Fricke, F. L., 4J89
 Friday, D., 5C17, 5F26
 Friebe, R., 2D54
 Friede, R. O., 2D202
 Friedli, F., 1J152
 Friedman, C. S., 4H70
 Friedman, L. C., 6A13
 Friedrich, B., 1D247
 Friedrichs, K. H., 5H6
 Friege, H., 6H70
 Fries, T. L., 1J129
 Frigerio, A., 1D59, 2H33, 6A5
 Frigieri, P., 1H1, 2J117
 Fritsch, E., 6B176
 Fritsch, G., 5F8
 Fritz, J. S., 1B16, 2B16, 5J17
 Fritz, W., 2F49
 Frohlich, J., 6D252
 Froment, G. F., 6C53
 Froment, P., 2J39
 Frondoza, C. G., 6D247
 Fruitwala, N. A., 1J66
 Fry, J., 5J10
 Fry, R. C., 6J84
 Fry, S. E., 4C50
 Frydrychova, A., 5D155
 Frye, J. S., 6H61
 Fryer, C., 1E27
 Fu, X.-C., 6D123
 Fuchs, F., 2H50
 Fuchs, R., 3D169
 Fuchsbichler, G., 3G40
 Fudal, A., 6B143
 Fudano, S., 5C22
 Fuentes, J., 1D31, 3D2
 Fuerlinger, E., 2A14
 Fuerst, W., 5B90
 Fujie, G. H., 3G42
 Fujii, T., 2D50
 Fujii, Toshiaki, 2H15
 Fujiki, Y., 2B37, 4B6
 Fujimori, K., 6D85
 Fujimoto, C., 6J33, 6J35
 Fujimoto, K., 3D90
 Fujimoto, M., 6D259
 Fujimoto, Yasuo, 4G5
 Fujimoto, Yoshinori, 2H98
 Fujimura, K., 5J35
 Fujimura, Y., 4D214, 4E30
 Fujinaga, K., 2C5
 Fujinaga, T., 5H55
 Fujine, S., 2B25, 4B31
 Fujino, H., 2C8
 Fujino, T., 3B76, 4B98
 Fujioka, M., 5B82
 Fujisawa, H., 4D313, 4D335
 Fujisawa, I., 6H56
 Fujishima, M., 2D138
 Fujita, I., 1C33
 Fujita, K., 6D164
 Fujita, Manae, 1D205
 Fujita, Masahiko, 3C41
 Fujita, N., 6C84
 Fujita, T., 4D161
 Fujita, Y., 1B113, 2E46
 Fujito, T., 4C60
 Fujitomo, H., 3D90
 Fujiwara, A., 6D249
 Fujiwara, Kitao, 5H67
 Fujiwara, Kunio, 3D66
 Fujiwara, S., 2H9
 Fujiwara, T., 2F7, 2F9
 Fujiyama, S., 4D263
 Fukagawa, Y., 2E22
 Fukai, R., 1H61
 Fukal, L., 6F66
 Fuks, L., 3B80
 Fukui, S., 1H66
 Fukushima, D. K., 6D68
 Fulford, J. E., 3D11
 Fuller, J., 3J2
 Fuller, M. P., 2C74, 4C50
 Fullerton, F. R., 1C97
 Fumoto, D., 3F54
 Funae, Y., 2D141
 Funaguma, T., 4D320
 Funck-Brentano, J. L., 4D227
 Funcke, W., 4H26
 Fung, G. A., 4B44
 Furkert, J., 3D228
 Furlan, M., 5D160
 Furman, B. K., 4J80
 Furness, J. B., 1D181
 Furukawa, M., 1D34, 2A23
 Furusawa, M., 2C54, 4C43
 Furuta, R., 6B196
 Furuya, K., 6B187
 Fushihara, M., 3B27
 Futekov, L., 5J109, 6A10
 Futrell, J. H., 3J25, 5J94
 Fuwa, K., 1C60, 3H89, 4D40,
 5H67, 6G7
 Fynn, G. H., 5D100
 Gaal, G., 1A26
 Gabor, P., 3J137, 3J139
 Gabor-Klatsmanyi, P., 6J141
 Gabriels, R., 6D36
 Gadal, P., 2D210
 Gad-Kariem, E. A., 4E61
 Gaeb, S., 5H3
 Gaertner, C., 4D13
 Gaetani, E., 6D132
 Gaethke, T., 6B169
 Gaffney, J. S., 3H35, 6J68
 Gagliardi, L., 2E9
 Gagnon, M., 2F28
 Gahm, J., 3J155
 Gaidadymov, V. B., 5H57
 Gaikwad, A. M., 6B82
 Gaivoronskii, P. E., 6B127
 Gajek, R., 1B32
 Gajewska, R., 3F36
 Galacci, R. R., 5F29
 Galanti, G., 5H54
 Galas, W., 4B1
 Galatanu, V., 1D19, 3B106
 Galazka, J., 4B1
 Galeeva, R. G., 1B130
 Galensa, R., 5F7
 Galindo, L., 2B155
 Galinier, J. L., 6B8
 Galkina, G. S., 6B144
 Gallai, Z. A., 4B74, 4E33
 Gallati, H., 1D199
 Gallego, M., 3B97
 Gallego, R., 4F58, 4F59, 5B100
 Gallego Andreu, R., 2B5, 2B6,
 2B31, 2B46, 2B100, 3B151,
 6B122
 Gallignani, M., 3D29
 Gallo, N., 4E43
 Gallo, R., 1B203
 Gallorini, M., 1B106
 Gallot, Z., 2J40
 Galtieri, A., 5C58
 Galunova, Z. N., 6C24
 Galushko, S. V., 1B174
 Gambaro, V., 1D63
 Gambarov, D. G., 3B123
 Gambertoglio, J. G., 5D38
 Gambini, A., 4D153
 Gamberith, G., 2D213, 2D214
 Games, D. E., 1J51, 2C65, 2E21,
 2H83, 3J26, 3J28, 5H47
 Games, M. P. L., 3J26
 Gan, T. H., 5J10
 Ganago, L. I., 5H78
 Gandhi, J. S., 5E7
 Gandhi, R., 2J85
 Gandhi, T. P., 3E49
 Gandrud, B. W., 5H20
 Ganeeva, A. R., 1B130
 Ganguly, N. K., 4D115
 Ganjan, I., 2D185
 Ganju, D., 6B184
 Ganno, S., 2D118
 Ganser, B., 2B80
 Ganzerli-Valentini, M. T., 1B9
 Gao, H., 1E69, 3E3, 6C9
 Gao, J., 3A9, 6B116
 Gao, X., 4B85, 5B80, 5B81, 6B67
 6B195, 6J126
 Gaozza, C. H., 6E37

- Garaeva, F. M., 1A20
 Garai, T., 4C44
 Garaj, J., 1J80, 1J81, 2C45
 Garanzha, A. P., 1H52
 Garbarino, J. R., 2H46
 Garbay, H., 6B25
 Garber, C. C., 2D259
 Garber, R. W., 6H15
 Garby, A. C., 2C100
 Garcia, M., 4B206
 Garcia, M. S., 5B150
 Garcia, V., 2J31
 Garcia Alvarez-Coque, M. C., 5A29
 Garcia Barroso, C., 3F50, 5F69
 Garcia de Maria, C., 6B44
 Garcia de Marina, A., 1A13
 Garcia de Torres, A., 4A10
 Garcia-Gutierrez, A., 2H109
 Garcia Montelongo, F., 2B155, 5B149
 Garcia-Moreno, C., 4F31
 Garcia Puignou, L., 5B25
 Garcia-Raso, A., 6J62
 Garcia-Raso, J., 6J62
 Garcia Roche, M. O., 6F74
 Garcia-Sanchez, F., 2A15, 3D311, 4B18, 4H9, 6H40
 Garcia-Vargas, M., 1A11, 2B142
 Garcia-Vegas, M., 3B97
 Garcia-Villanova, R., 5F28
 Garcia-Villanova, R. J., 5F28
 Gardella, J. A., jun., 3H10
 Gardiner, L. R., 4J106
 Gardiner, P. E., 2D34, 2D41
 Gardner, C. W., jun., 3J147, 3J148
 Gardner, J. J., 2D101
 Gardner, R. E., 1D201
 Gareil, P., 1J189, 5J32
 Garg, B. S., 5F44
 Garg, M., 6J47
 Garg, S. K., 4D115
 Gargano, A., 1F30
 Garkusha-Bozhko, V. S., 4C32
 Garlock, S. E., 3C76
 Garoff, T., 5B137
 Garpe, L., 4J37
 Garrett, E. R., 3E14
 Garrett, J. H., 2H36
 Garrido, J. L., 6H7
 Garrigues, P., 3C71
 Garrison, J. L., 2E16
 Garry, R., 5D215
 Garske, E. E., 5H73
 Garti, N., 5C66, 6F15
 Garulli, A., 1B208, 2B103
 Gaskell, S. J., 1D97, 2D172, 2D173, 2D175, 3D186, 4D175, 6D193
 Gasnarkova, B., 6G22
 Gasparicova, E., 3H97
 Gasparoli, A., 4C69
 Gassiot-Matas, M., 1G10, 3F47
 Gatchell, F. P., 1B25
 Gates, S. C., 1D118
 Gattavecchia, E., 2E9, 4E77, 5D98
 Gaucher, A., 2D44
 Gaudel, G., 4D102
 Gaug, H., 2J138
 Gaugain, B., 2F17
 Gauger, G. A., 3C85
 Gaul, J. A., 5G21
 Gautam, M., 4B132
 Gautier, J., 6J132
 Gavrichev, V. S., 1J73, 1J75, 2J64
 Gavrikov, P. A., 4J102
 Gavrilina, L. Ya., 3J48
 Gavrilov, K. A., 6B84
 Gawrych, Z., 2E51
 Gaya, J. M., 6D221
 Gaydosh, R. J., 1C19
 Gaydou, E. M., 5F12
 Gayte-Sorbie, A., 5C72
 Gazda, K., 5J29
 Gazdag, M., 2E27
 Geahchan, A., 4F47
 Gebauer, P., 4A20
 Gebhardt, D. O. E., 2D158, 2D161
 Gee, H., 6D278
 Geeraert, E., 4F26
 Geerdink, R. B., 1J54
 Geerlings, P., 4J74
 Geetha, N. S., 3B44
 Geffard, M. R., 5D131
 Gegiou, D., 4F73
 Gegus, E., 3B137, 3B138, 3B139
 Gehring, K., 4J93
 Gehrke, C. W., 1G7
 Gehrke, R. J., 1J183
 Geiger, H., 4D270
 Geiger, P. J., 6D12
 Geigert, J., 2C20
 Geil, J. V., 3E1, 5H96
 Geiler, M., 3E7, 3E8
 Geisler, M., 1J180
 Geissler, M., 4B200
 Geladi, P., 5H8
 Gelber, L. R., 3E17, 3E54
 Gelbrecht, J., 1H44
 Geldmeyer, S., 5D171
 Geller, B. L., 3D290
 Gelpi, E., 1D152, 3D215
 Gen, L. I., 5A22
 Genestar, C., 4B129
 Geng, K., 3E1
 Genkina, G. L., 1E48
 Gennaro, M. C., 1C41, 4B40
 Genov, I., 4B148
 Genova, N., 1B9, 6D22
 Genre, C. E., 2D285
 Gent, C. A., 4B149
 Gentillon, C. D., 2J160
 Genuit, W., 3H26, 6H21
 Geodakyan, K. T., 1C13
 Georg, A., 4J57
 George, A. H., 1J63
 George, P. M., 2D289
 George, S., 5D151
 George, S. A., 3J22
 Georges, J., 4E88
 Georgiou, P. E., 5H28
 Georgoulis, M., 4F73
 Gerasimov, A. A., 5B61
 Gerasimov, V. P., 6J78
 Gerber, L. E., 5D173
 Gerding, D. N., 1D56
 Gere, A., 3F55
 Geretschlager, M., 1J103
 Gergely, A., 1E40
 Gerich, J., 2D135
 German, B., 1D125
 Germinario, R. J., 5D182
 Gerow, K. E., 3B39
 Gerstein, B. C., 6J108
 Gersten, D. M., 3J44, 6J49
 Gerstenberger, H., 1J180
 Gervasi, P. G., 5D189
 Gesell, T. F., 5H1
 Gesheva, D., 5A19
 Gessler, N. N., 4D305
 Gevorgyan, A. M., 5B72, 5B162, 5B163, 6B40, 6B175
 Gevorkyan, B. Z., 6H4
 Ghadge, A. V., 1B126, 5B34
 Ghadge, G. D., 2J45
 Ghanem, A., 6E57
 Ghidoni, R., 3D174, 3D175
 Ghiggi, G. M., 6D236
 Ghiglione, C., 3D107
 Ghina, S., 4E77
 Ghinea, S., 5B19, 5B109
 Ghose, S. B., 2B119
 Ghosh, J., 4B146
 Ghosh, M., 4D177
 Ghosh, P. K., 5H44
 Giammona, G., 2E70
 Giampietro, P. F., 5D231
 Gianazza, E., 4J57, 6D226
 Giannelli, V., 2C36
 Giannola, L. I., 2E70
 Giauque, R. D., 6B188
 Gibb, I., 2D16, 5D34
 Gibb, J. W., 2D199
 Gibbons, A. P., 3D216
 Gibbons, G. C., 1F43
 Gibbons, P. A., 1C84
 Gibbs, P. H., 2H68
 Gibbs, R. J., 5H46
 Giber, J., 3B5
 Gibson, T. M., 5H87
 Giddings, J. C., 1J30
 Giddings, R. C., 1A28
 Giebelmann, R., 2D62
 Gieger, U., 3F35
 Gielsdorf, W., 2D83, 2D88
 Gierak, A., 4J26
 Giese, J., 1D186
 Giese, R. W., 5J27
 Giessler, A. J., 3D178
 Giessman, U., 3D13
 Gigante, G. E., 2D60
 Gihwala, D., 3B22
 Gijare, A. S., 4E24
 Gijbels, R., 1J157, 6B93
 Gijzen, A. H. J., 1D249
 Gil, A., 1D163
 Gilbert, H., 3D254
 Gilbert, J., 5C10
 Gilbert, M. T., 1J23
 Gilbert, P., 3E65
 Gilbert, R. N., 3E49
 Gilbert, S. S., 2D285
 Gilbert, T. R., 3J82
 Gilbertson, T. J., 4D216
 Gilchrist, C. A., 3C83
 Gildemeister, H., 3D133
 Giles, H. G., 3D201
 Gilfrich, J. V., 2J87
 Gill, A. A., 1G6
 Gill, J. P., 1C68
 Gill, R., 1D113, 1J50, 4E64, 4J39
 Gill, S. S., 4D327, 5D223
 Gillan, F. T., 1D219
 Gillespie, D. G., 5J85
 Gillette, P. C., 4J95
 Gillian, G., 4H45
 Gillies, D. C., 5B190
 Gil'mutdinov, A. Kh., 3J73
 Gilpin, R. K., 2F29, 5D133
 Gil Serrano, A., 4F52
 Gimel'farb, F. A., 1B207
 Gimenez Cuevas, G., 6G21
 Gimenez Plaza, J., 2B12
 Gimeno, A., 5G9
 Gimeno Adelantado, J. V., 5B97, 6C6
 Gimpel, M., 1J41, 4J33
 Gimpel'son, V. G., 3A24
 Gimsing, P., 4D301, 4D302, 5D195
 Giner, J., 2D113
 Ginman, R., 5D122
 Giometti, C. S., 3D236
 Giovanoli, T., 2E43
 Gips, C. H., 5D20
 Girard, I., 1D177
 Girard, J. E., 6D201
 Girardin, M., 6C74
 Giri, S. K., 1D41, 4J85
 Gisin, B. F., 4A11
 Giss, G. N., 1J90
 Gisselbrecht, C., 5D77
 Giuliani, G. G., 4D237
 Gjoes, N., 5H85, 6C83
 Gladney, E. S., 5H62, 6H18
 Gladyshev, P. P., 1E18
 Gladyshev, V. P., 1B108
 Glajch, J. L., 2J25, 2J28
 Glascock, M. D., 6B39
 Glasow, P. A., 5J97
 Glass, E., 4D319
 Glass, R. L., 3G36
 Glass, T. E., 3C74
 Glascock, R., 2D135
 Glasunov, V. B., 3C105
 Glatt, H. R., 6D284
 Glavie, P., 1B73
 Glaz, A. Sh., 5C41
 Gleispach, H., 4D69, 4D157
 Gleitsmann, B., 3J40
 Glende, M., 4D61
 Glenn, R. C., 4G6
 Glinskaya, A. N., 4B49
 Glinskikh, V. M., 4J103
 Glitzer, O., 6C47, 6C48
 Glodowski, S., 5B62
 Gloger, M., 1E21, 5A17
 Glosby, A. A., 4B139
 Glowinski, K., 1E47
 Gluck, J. A. P., 1E42
 Gluck, S. J., 2J70
 Glushko, V. N., 3C99
 Glushkov, Yu. I., 2B172
 Gluzinski, L., 3C63
 Glynn, P., 3D254
 Gnanasambandan, T., 1D114
 Gnauck, R., 1C116, 1C120
 Gneeva, V. I., 2C89
 Gnusowski, B., 1E52
 Gobbato, S., 6D109
 Gobbi, G., 1J59
 Goculowski, M., 3J67
 Godbole, A. G., 5B86
 Godbole, S. V., 5B87
 Godoy M., G., 4D84
 Goebel, D. M., 4J112
 Goebel, K. J., 6D70
 Goebell, H., 4D27
 Goebel, M., 4J52, 6J45
 Goenechea, S., 5D49, 6D70
 Goertz, H. H., 2D269
 Goetz, D., 6H19
 Goetz, R., 2G4, 2G9
 Goetz, W., 4D315
 Goetzl, E. J., 5D108, 6D173
 Goff, E. U., 3D105
 Goforth, D., 4H41
 Gogia, S. K., 3B54
 Gogolak, C. V., 5J144
 Goheen, S. C., 2D154
 Gohshi, Y., 6B187
 Goin, R. W., 4B104
 Gokel, G. W., 4A11
 Gokhale, A. S., 4B97
 Golas, C., 2D69
 Golay, M. S., 2D263
 Gold, C. M., 6B181
 Gold, H. S., 3J87
 Goldan, P. D., 6H13
 Goldberg, A. P., 1C111, 3D274
 Goldberg, J. M., 1J109
 Goldberg, V., 4D98
 Goldblatt, F., 5B178
 Goldman, A. I., 4D103
 Goldschmidt, H. M. J., 6D1
 Goldstein, S. R., 2D111
 Goldwasser, J. M., 1C115
 Golias, J., 3F37
 Golik, N. N., 4B216
 Golikov, V. I., 6E42
 Golkiewicz, W., 1H77
 Golokozova, A. G., 2C47
 Golovanov, V. I., 1C37
 Golovina, A. P., 1B79, 4B64
 Golovnya, R. V., 5C1
 Golubev, V. N., 6J143
 Golubova, E. A., 1B187, 3B37
 Gombocz, E., 4F33, 6F6
 Gomes, J. D., 4D279
 Gomes, T., 4F66
 Gomez Ariza, J. L., 2B19
 Gomez Coedo, A., 2B100
 Gomez del Rio, M. I., 3B10
 Gomez-Hens, A., 2B116
 Goncharova, N. N., 3B45
 Gonczl, L., 1G4
 Gondko, R., 5D19
 Gong, B., 2H55
 Gong, G., 1B142, 5B98, 6B120
 Gonnet, C., 1D177, 1J38, 3C31, 4D64, 4D290, 6J51
 Gonnord, M. F., 2J26, 4J51, 5J74
 Gonsior, B., 6B5
 Gonzales-Morna, J., 4H71
 Gonzalez, M. A., 1D98
 Gonzalez Escoda, J. M., 1C69
 Gonzalez-Gomez, C., 6J74
 Gonzalez Paules, J., 1F51
 Gooch, R. M., 1H40
 Good, B. W., 6D11

- Good, D. W., 4D34
 Goodhue, C. T., 4D198
 Goodley, P. C., 3J58, 3J112, 5J52
 Gooijer, C., 1C55, 3C60
 Gopal, R., 5H44
 Gorbacheva, N. A., 4D137
 Gordonskii, I. T., 3H65
 Gordon, B. M., 3J64
 Gordon, G. E., 5B194
 Gordon, L. P., 2D241
 Gorelik, L. D., 2G15
 Goren, S., 2J6
 Gorina, F. A., 6C52
 Gorka, P., 6B172
 Gorman, N., 3D252
 Gorodskii, D. D., 2B146
 Gorog, S., 1C30, 6E3
 Gorokhov, A. G., 6D154
 Gorokhova, V. G., 6D154
 Gorshkova, V. N., 1E13
 Gorski, B., 6B176
 Gorski, Z., 4D45
 Goryachev, N. S., 5H30
 Gosselink, D. W., 1C4
 Gosser, D. K., 6F30
 Gossink, R. G., 3B170
 Gosteva, L. I., 4H73
 Goswami, R., 3E23
 Gotelli, G. R., 6D25
 Goto, J., 3D195, 4D173, 6D191
 Goto, K., 1D34
 Goto, M., 3H59, 4H35
 Goto, N., 4D173, 6D191
 Goto, Shigeru, 3D127
 Goto, Shinko, 2G14, 3G39, 6B114, 6G27
 Goto, T., 2D75
 Gottardi, W., 4E85
 Gottesmann, P., 3F21
 Gottfried, G. J., 3B11
 Gottlieb, K., 2C68
 Gottschling, H. D., 2D266
 Gottstein, W. W., 6D7
 Gough, T. A., 2E41, 4E1
 Gould, B. J., 5D179
 Gould, J. H., 5B182
 Gould, R. M., 4G2
 Goulding, F. S., 5J146
 Goulet, D., 2D93
 Gourdenne, A., 2C121
 Gourmel, B., 5D77
 Goverde, B. C., 3D262
 Gowda, B. T., 5B94
 Gowda, H. S., 4B158, 5B123, 5B155
 Gowda, N. M. M., 4A16
 Gowdie, R. A., 2D30
 Gowen, R. J., 4D276
 Gower, J. L., 2E21
 Goya, S., 2C8
 Goyal, N., 5B88
 Grab, E., 2D198
 Grabowicz, W., 4E71
 Grabowska, I., 3E52, 3E53
 Grachev, B. D., 1J120
 Gracia, I., 3H68
 Graciani Constante, E., 5F76
 Grady, M. A., 4D307
 Graeser, E., 3D271
 Graham, C. L., 3H47
 Graham, K. F., 4J21
 Grahl-Nielsen, O., 6F33
 Graiser, S. R., 3D263
 Gramberg, L. G., 2D98
 Grandchamp, B., 5D200
 Grandolini, G., 1E56
 Graneli, A., 2H48
 Graneli, A., 2D112
 Granger, H., 4D99
 Granovskii, E. I., 6H1
 Grant, G. G., 4D148
 Grant, J. D., 4D75
 Grant, J. T., 1J146
 Grases, F., 4B129
 Grasmeyer, G., 6D56
 Grasserbauer, M., 3B4
 Grasso, G., 6H74
 Grauer, R., 1J161
 Graul, R. J., 3D7
 Gray, A. L., 2B98, 2J144, 2J145, 3J105
 Gray, P. E., 2B171
 Gray, S. P., 3D310
 Gray, T., 1D17
 Gray, T. K., 2D275, 6D267
 Graydon, J. W., 1J71
 Grazelevicius, J., 1A25
 Grdinic, V., 1E53, 3A16
 Greaser, M. L., 2F20, 4D237
 Greaves, J., 1D54
 Grechanyuk, N. I., 6B166
 Greco, A. V., 2D186
 Greely, V. J., 3E50
 Green, B. N., 2D175, 3D186
 Green, D., 3C81
 Green, D. T., 2C91
 Green, K., 4D68, 4D159
 Green, L. A., 2B22
 Green, L. W., 1B94
 Green, M. D., 2E11
 Green, P. J., 4D86
 Green, R. B., 3J15, 4J92, 5J137
 Green, S. A., 2D239
 Green, T. P., 5D80
 Greenberg, R. R., 3D51
 Greenblatt, G. A., 5D96
 Greene, A. R., 3D273
 Greene, B., 2B99, 2J184
 Greenfield, J. C., 3D73
 Greenfield, S., 2J121
 Greenhow, E. J., 3A19, 3J49, 4E21
 Greenquist, A. C., 6D49, 6D50
 Greenwalt, C. C., 5J94
 Greenwood, H. M., 4D72
 Greenwood, R. C., 1J183
 Greetham, S. S., 1B56
 Grego, B., 1D169, 1D182
 Gregor, I. K., 3C83
 Gregorowicz, Z., 6B172
 Gregory, J., 4D185
 Gregory, N. L., 2D30
 Gregory, P., 4A21
 Greibrokk, T., 5J31, 6D158
 Greig, N., 6D123
 Grekov, A. P., 3C39
 Grekova, I. M., 2A20
 Grekovich, A. L., 6J136
 Grenier, A., 4D262
 Greppin, H., 1D251
 Greulich, H. G., 1F27
 Greving, J. E., 6D103
 Grgurinovich, N., 6D112
 Gribov, L. A., 4A27
 Gridley, J. C., 4D123
 Griepink, B., 2C3, 4H34, 5A18, 6D14
 Griese, P., 2C99
 Griest, W. H., 2H26
 Griffin, G. F., 3J9
 Griffin, H., 2B117
 Griffin, K. B., 5D137
 Griffith, D. P., 4B13
 Griffith, P. E., 5C57
 Griffiths, D. G., 5C40
 Griffiths, D. T., 3D65
 Griffiths, J. R., 4D284
 Griffiths, W. C., 4D118
 Grift, N. P., 6D142
 Grignard, R., 3E34
 Grigor'ev, G. L., 5B166
 Grigor'ev, O. L., 6B71
 Grigor'eva, D. N., 5C1
 Grigor'eva, L. A., 3B28
 Grigsby, R. D., 2J152
 Grimaldi, P., 3H52
 Grimble, G. K., 2D108
 Grimes, P. E., 4D124
 Grimmer, G., 1C70, 6H29
 Grimsrud, E. P., 4J73
 Grindel, J. M., 3D88
 Grindstaff, Q. G., 2J152
 Grinstead, G., 5D143
 Grishaeva, T. I., 1H67
 Grishakova, T. E., 6B85
 Grob, G., 4J67, 4J68
 Grob, K., 1J71, 2H78, 2J52, 4J67, 4J68, 4J71, 5H84
 Grob, K., jun., 2J58, 5J88, 5J89
 Grob, R., 2J4, 6B25
 Grob, R. L., 4H69, 5C5
 Grobecker, K. H., 2B4
 Grobelski, Z., 6B102
 Groblicki, P. J., 2H25
 Groebel, W., 3F22
 Grogan, W. C., 2H1
 Grognet, P., 1D44
 Groll, P., 5B90
 Gromakova, A. I., 6D157
 Gronskaia, S. I., 4J103
 Groom, G. V., 6D193
 Grosch, U., 3D178
 Grosch, W., 2F35
 Grose, E. C., 4D307
 Gross, M. L., 3D223, 3D224, 4J116
 Gross, R. W., 2F45
 Gross, S. J., 4D75
 Gross, U., 1C71
 Grossmann, P., 3D202
 Grou, E., 5G37
 Groves, J. K., 5D78
 Groves, W., 5J24
 Groyer, S., 4C79
 Gruber, H., 6B36, 6B49
 Grudniewska, A., 6B136
 Grudtsyn, Yu. D., 5C41
 Grudtsyna, D. U., 4H73
 Gruebmeier, H., 3B135
 Gruen, M., 4D304
 Gruenert, W., 4J9
 Grunenberg, D., 3B3, 6B151
 Gruner, S., 3D24
 Grunert, E., 3D188
 Gruszcyk, S. B., 4D216
 Gruzins, I., 4C82
 Gryga, P., 3C37
 Gryz, K., 1E54
 Grzelewski, L., 4C76
 Grzybowski, J., 1H87
 Gschwendtova, K., 3D217
 Gstrein, K., 6E29
 Gu, G., 3A9
 Gu, S., 5B21
 Gu, Y., 4B11
 Guaita, M., 5J61
 Guan, S., 3B129
 Guarcello, V., 5D123
 Gucer, S., 5J118
 Gudernatsch, H., 1H43
 Gudkova, A. E., 3C114
 Guebitz, G., 1D172, 4C40
 Guenier, J. P., 3H24
 Guennegew, V., 4D167
 Guenther, H. O., 6F43
 Guenther, K. H., 3B172
 Guenther, T. M., 4D327
 Guerin, P., 6C20
 Guerrant, G. O., 3D159
 Guerrato, A., 3C8
 Guerret, M., 2D94
 Guevara, J., jun., 6D225
 Guggenberger, J., 1H28, 6H11
 Guiard, M., 6D176
 Guize, J., 3C78
 Guiguet, M., 4D240
 Guilbault, G. G., 2D114, 5H32, 5J147, 6J150
 Guilluy, R., 2D78, 3E40
 Guiochon, G., 1H77, 1J36, 1J44, 1J167, 2J26, 3C71, 3J24, 4C1, 4J35, 4J36, 4J51, 5J46, 5J50, 5J53, 5J74
 Guiraum, A., 3B67, 5B52
 Gulacar, F. O., 2D87
 Gulati, A. K., 2C9, 2E59, 4B117
 Gumpen, S. A., 6F29
 Gunasingham, H., 4J138, 5C36
 Gundermann, P., 2E8
 Gunji, K., 1B160
 Gunter, W. H., 6J82
 Gunther, F. A., 1G35, 6G38
 Gunzer, G., 2D6
 Guo, C.-J., 3J99
 Guo, K., 6B41
 Guo, M., 1C38
 Guo, Z., 5B192
 Gupta, B. L., 5D7
 Gupta, K., 5D169
 Gupta, R. D., 6B16
 Gupta, S., 3D234
 Gupta, U., 5B18
 Gupta, V. K., 1B23, 1B137, 1H3, 3H19, 6H24
 Gupte, D. D., 4E66
 Gupton, E. D., 4H10
 Gur'ev, I. A., 1C45, 4J131
 Gur'eva, R. F., 4B203
 Gureviciene, V., 6J151
 Gurker, N., 2J88
 Gurner, P. J., 3J5
 Gurtu, S., 4G4
 Gurzan, M. I., 3B180
 Guseinov, A. G., 3B123
 Guseinov, I. K., 5B139
 Guseva, T. V., 6C7
 Gushchina, E. A., 1C45
 Gustafsson, K. H., 3G37
 Gustavsen, K. O., 5H85
 Guthrie, D. L., 1D248
 Gutierrez, A. M., 5B100
 Gutierrez, P., 3C80
 Gutierrez Davila, L., 5B65
 Gutierrez Monreal, F. J., 3J140
 Gutowski, S. J., 5D220
 Gutsol, A. D., 6J143
 Gutsulyak, R. B., 4B66
 Gutteridge, C. S., 1A7
 Guven, K. C., 2E32
 Guyon, J. C., 3G31
 Guyot, B., 1F39
 Guzzi, G., 5A18
 Gvelesiani, Z. A., 3J53, 5J93
 Gwosdow-Cohen, A., 1D144
 Gyllenhaal, O., 4D109
 Gylstorff, B., 2D71
 Gyr, G., 3E77
 Haak, R., 1B40
 Haas, D. L., 1J131
 Haas, H. F., 3D20, 3G19
 Haase, H. J., 2J179
 Haataja, H., 5G34
 Haavik, J., 3D279
 Haayer, G., 5D134
 Habbal, M. Z., 6D206
 Habbema, J. D. F., 6A18
 Haberl, R., 3H57
 Habermann, J., 5D168
 Habfast, K., 2C12, 2J142
 Habich, A., 2H78, 2J52
 Habrat, E., 6A19
 Haccoun, A., 3H13
 Hackman, M. R., 5D64
 Hada, N., 4F16
 Haddad, P. R., 2E17, 2E49, 5E10
 Hadfield, A. F., 2J18
 Hadjioannou, T. P., 2D206, 4C24, 4D220, 6D146, 6J157
 Hadji-Mohammadi, M. R., 3E36
 Hadley, M., 3G22
 Hadley, R. E., 3H69
 Hadrabova, V., 6J41
 Hadzisce, A., 1E62
 Haegle, K. D., 6D77
 Haemers, L., 2C3, 5A18
 Haemmerli, A., 2J167
 Haeni, R. C., 3H93
 Haensel, R., 3E32
 Haesusig, U., 4A26
 Haesusier, K. G., 2C117
 Hafez, M. B., 4B82, 6B22
 Hafkenscheld, J. C. M., 4D306
 Haga, M., 3D141, 6D138
 Hagberg, C. E., 4D285
 Hageman, R. J. J., 6D103
 Hagemann, P., 2J82, 6D229
 Hagen, D. F., 2C16, 2D103
 Hagiwara, K., 2H86, 6H57
 Hagop, G. W., 3C34
 Hahn, C. E. W., 1J193
 Hahn, D. A., 4C35
 Hahn, P. B., 4B139
 Haibara, Y., 4C43
 Haines, J., 1B188
 Hajek, B., 2B67
 Hajek, M., 5C59

- Haken, J. K., 2C13, 2C35, 3C50
Hala, J., 3B98
Halas, S., 3B112
Halbach, G., 4E7
Halbig, J. K., 3J128
Haldemann, A., 6F13
Halden, T., 3J93
Hale, G. M., 2B129
Hale, M. D., 1B29
Hall, D. G., 4H31
Hall, E. A. H., 1J193
Hall, E. F., 3J104
Hall, G. S., 1B49
Hall, J. M., 4F3
Hall, M. E., 6D171
Hall, P. A., 1G20
Hall, P. M., 5D179
Hall, R. C., 1H73
Hall, T., 4D199
Hall, T. A., 5D7
Hallak, A. B., 6F34
Hallam, L., 3D259
Haller, E. E., 2B95, 2B96, 4B217
Halliwell, G., 5F25
Hallmans, G., 3D34
Hallmer, H., 6F3
Halonen, T., 1D262
Halova, J., 6B9
Halpern, B., 6D159
Halpern, W., 5J70
Hals, P. A., 2D85
Halsall, H. B., 1D196
Halter, C. M., 4D264
Halwachs, W., 4D131
Hamacher, H., 3E37
Hamad, E., 1J22
Hamada, M., 4B150
Hamada, T., 6B177
Hamaguchi, K., 3G23
Hamalainen, E., 1D146
Hamamoto, K., 1D210
Hamann, J., 6F41
Hamann, S. R., 2D89
Hamano, T., 2F7
Hamazaki, T., 4D161
Hambley, J., 4D319
Hameroff, S. R., 5D60
Hamidzadeh, Z., 5E15
Hamilton, J. G., 2D148
Hamilton, R., 1H5
Hamilton, R. G., 1D11
Hamilton, R. H., 1D165
Hamilton, S. D., 5J105
Hamilton, T. W., 4H48
Hamm, R., 3F21
Hammarstroem, S., 5D108, 6D173
Hammat, M. T., 3D226
Hammers, W. E., 1H55
Hammock, B. D., 4D327, 5D223
Hammond, P. M., 2D82
Hamon, M., 3C93, 4E86
Hampel, R., 6D67
Han, C., 2D221
Han, Y., 6B149
Hanada, K., 4F21
Hanai, T., 2C49, 5D103
Hanawa, H., 5H63
Hancock, R. A., 3C82
Handa, S., 3D179
Handkiewicz, B., 1E10, 2E66
Handson, P. D., 4D133
Handwerg, S., 1D189
Haney, P. L., 6C5
Hangac, G., 6J67
Hangac, H. H., 2J19
Hangos, M., 1B133
Haniff, I. M., 4G20
Hanin, I., 1D167
Hanisch, R. C., 1H73
Hanle, W., 2J107
Hannah, R. W., 1J141
Hannan, A. H. M. A., 2B170
Hanneken, J. W., 2B23
Hannemann, P., 5D33
Hanninen, O. O. P., 5D210
Hanninen, V., 2D255
Hanno, K., 6B141
Hannoun, C., 5D221
Hanrahan, P. D., 4D133
Hansel, J. M., 6B83
Hansen, E. H., 1J9, 4D139, 5J15
Hansen, G., 2J143
Hansen, G. E., 2D97
Hansen, J. E., 3D21
Hansen, L. D., 2J43
Hansen, N. B., 6B28
Hansen, R. G., 4B90
Hansen, S. H., 5J37, 6D253
Hansen, W. L., 2B95, 2B96
Hanshumaker, D. T., 4C81
Hanson, N. Q., 2D189
Hanson, V. W., 4D78
Hansson, L., 6J58
Hansson, P., 1D149
Hanzwate, D. R., 3B77
Hanzlova, H., 4F24
Hao, G., 1B173
Happ, E., 2D269
Happich, M. L., 5F33
Hara, A., 4D320
Hara, F. T., 6B78
Hara, I., 6D251
Hara, K., 6E13
Hara, Satoshi, 5D175
Hara, Shoji, 2D61, 2D272, 4C42
Hara, T., 2C4, 2C5
Hara, Y., 5J12
Harada, H., 2C94
Harada, J., 3G27
Harada, K., 1C20, 1C33
Harada, K.-I., 5E22
Haraguchi, H., 3H89, 6G7
Harangozo, M., 6G1
Hardee, G. E., 6D102
Harden, E. H., 3J27
Harding, C. R., 4D239
Harding, G. L., 5B188
Harenberg, J., 3D229
Harff, G. A., 2D45
Hargroves, E., 1F23
Harles, A., 6B106, 6B107
Harlick, L., 5H28
Harmenberg, J., 4D285
Harmon, R. S., 2B93
Harnly, J. M., 2J110, 3J69
Haroon, Y., 4D296
Harper, T. W., 6D171
Harrah, L. A., 4J94
Harrington, D. E., 4B152
Harrington, G. W., 5C71
Harris, D. B., 2H6, 3J154
Harris, E. K., 2D27, 6A14
Harris, J. C., 3H23
Harris, L., 1D87
Harris, P. J., 2D119, 2D120, 6D152
Harris, V., 2D230
Harrison, A. G., 5J138
Harrison, I. T., 2E53
Harrison, L. C., 3D231
Harrison, R. M., 1H22, 2A3
Harshe, S. N., 6C78
Hart, J. P., 1D60
Hart, S. R., 3B166
Hartin, M. L., 2C19
Hartke, K., 1E28, 6C23
Hartmann, A. E., 2D14
Hartmann, L., 5D121
Harto Castano, A., 4B96
Hartvig, P., 1C32, 4D92, 6D78
Hartwick, R. A., 1J39
Harvan, D. J., 1C126
Harvey, T. M., 4H68, 5H12
Hasan, M., 2B153
Hasan, M. N., 4C37
Hasan, M. Z., 4A5
Hasegawa, N., 1D47, 2D250
Hasegawa, R., 3D309
Hasegawa, T., 6G7
Hashida, S., 1D211, 4D248
Hashimoto, F., 3D221
Hashimoto, K., 3F28, 4D256
Hashimoto, M., 6D262
Hashimoto, S., 1D73
Hashimoto, T., 2D234, 3D235
Hashimoto, Y., 2B63, 4J17, 5B26
Hashizume, Takashi, 2F1
Hashizume, Takeshi, 4G14
Haskard, M., 1J188
Haskins, N. J., 3J120
Hass, J. R., 1C126, 3J33, 3J34, 4C10, 4D135, 6C11
Hassain, M. F., 4B132
Hassan, A. A., 6H43
Hassan, M., 2D223
Hassan, M. M. A., 6E9, 6E62
Hassan, S. M., 3E71, 4E47
Hassan, S. S. M., 3C14
Hastings, R. D., 4B104
Hasuie, A., 5F35
Hata, T., 6B152
Hata, W. Y., 6B27
Hatano, H., 2C29, 5J64
Hato, M., 5D224, 5D225
Hatta, K., 1B22
Hattori, H., 2D106
Hattori, M., 2D90
Hattori, S., 2D248, 3D75
Hauck, H. E., 3E22, 5J75, 6J52
Haupt, K., 1J74
Haupt, K., 6B191
Haupt, O., 2D179
Haupt, W., 5D184
Hauschka, P. V., 4D296
Hauser, E., 3B172
Havahara, N., 2D141
Havel, J., 3B75
Havens, J. R., 6C79
Haverkamp, J., 1D7, 3C92
Havezov, I., 5B20
Havranek, E., 6G1
Havrilla, G. J., 3J86
Haw, J. F., 3C74
Hawes, E. M., 5D53
Hawley, D. M., 4D325
Hay, W. W., jun., 3D148
Hayakawa, J., 2C96, 2C97, 4F14
Hayakawa, K., 3D251
Hayakawa, M., 2C54
Hayakawa, T., 2B18, 2B63
Hayama, S., 4B23
Hayano, S., 2J172
Hayashi, C., 4D184
Hayashi, Koichiro, 2J67
Hayashi, Koji, 6H49
Hayashi, Masaaki, 1D205
Hayashi, Masaki, 4D68
Hayashi, Masayuki, 4F8
Hayashi, Mitsuo, 4B60
Hayashi, S., 1B22
Hayashi, T., 5D99, 6D208
Hayashi, Yasuhisa, 4D24, 5D177
Hayashi, Yoshitatsu, 2D90
Hayduk, W., 1A32B
Hayes, A. G., 3D97
Hayes, A. W., 5F36
Hayes, D. K., 5D147
Hayes, J. F., 2F25
Hayes, J. M., 4J77, 5B27
Hayes, M. H. B., 3H47
Hayes, M. J., 3J29
Haymond, M., 2D135
Hayn, M., 2C101
Hayward, N. J., 6D3
Hazelby, D., 2G12, 3B171, 3J109
He, B., 3A7, 4A6
He, H., 2B90
He, L., 1E23, 1E24, 2E15
He, S., 1D273
He, Z., 5G31
Head, L. P., 6D275
Headridge, J. B., 5B157
Healy, T. E. J., 4D82
Heaney, R. K., 5G6
Heard, J. T., jun., 4D283
Hearn, M. T. W., 1D169, 1D182, 1D183
Hearne, C. R., 1D13
Heath, R. R., 2J66
Heathcliffe, G. R., 3D273
Heaton, M. G., 6B188
Heck, D., 3D19
Heckelsberg, L. F., 4C49
Heckers, H., 3D162
Hedlund, B., 5F51
Hedrich, E., 3H45
Hedstrom, S. A., 1D149
Heerens, J. J., 3J157
Heftmann, E., 2D207, 2J77B
Hegedus, B., 1C30
Hegner, D., 2D71
Heick, H. M. C., 2D69
Heidelberg, N. D., 5F36
Heikes, D., 5F19
Heiland, G., 3J8
Heimler, D., 5D129
Heine, D. R., 1C82
Heineman, W. R., 1D196, 1J107, 2J183, 4B157
Heinen, H. J., 1J155
Heinonen, O. J., 2B76
Heinrich, K. F. J., 1A1
Heintz, B., 3E37
Heithmar, E. M., 3B111, 3B134
Heitz, C., 2B3
Heizmann, C. W., 3D248
Hekster, C. A., 2D96
Helboe, P., 5C70, 5J37
Heldman, E., 1D79
Helenius, T., 6D217
Helfricht, R., 6J173
Helle, E., 5G34
Helle, L. W., 5B146
Heller, D., 2J143, 5J139
Heller, S. R., 1J175, 6A1
Hellman, M. Y., 5C81
Hellmann, H., 3H77
Hellmann, K., 6D123
Helmer, R. G., 3A30
Helt, R. C., 3G42
Heltai, G., 1J124
Helus, F., 3B118
Hem, S. L., 6E5
Hemmman, R., 5D39
Hemmila, I., 2D255
Hendel, J. G., 4D272
Henderson, A. R., 2D49, 2D279, 3D62
Henderson, J. E., 1H73
Henderson, J. F., 5D181, 5D196
Hendra, P., 1J145
Hendren, D. J., 2G7
Hendricks, R., 1D68
Hendrix, D. L., 5C17
Hendrix, J. L., 6D10
Henion, J., 4D51
Henion, J. D., 1C126, 3D73
Henke, M., 1J74
Henkelmann, R., 3J91
Henneberg, D., 2J153, 6A28
Hennessey, K. M., 4D86
Henning, W., 1F10
Henon, G., 6F69
Henrion, G., 1H44, 6J160
Henry, J., 1D261
Henry, J. B., 3B13
Henry, M., 3D231
Henry, R. J., 2D119, 2D120, 6D152
Henry, R. L., 4D103
Henry, W. M., 2H22
Henselman, J. H., 6C54
Henshall, A., 6D207
Hensler, C. J., 3H34
Henthorn, P. L., 5D220
Hepler, B. R., 4D79
Herber, R. F. M., 4D30, 6D16, 6J89
Hercules, D. M., 3E64, 3H10
Heresch, F., 2J135, 5J56
Hering, S., 2J6
Herkner, C., 1D277
Herkner, K., 1D277, 1J92
Heringer, H., 6C76
Hernandez, L., 1B52, 1B124
Hernandez Cordoba, M., 1B112, 3B41, 5B41
Hernandez Mendez, J., 4B113, 5B65, 6B44, 6B119
Herold, D. A., 1D49
Herrera, G. C., 2B84
Herrmann, I., 6D144
Herrmann, K., 5G5
Hersh, E. M., 3D123
Hershey, J. P., 6B188

- Hershko, C., 3D258
 Hertz, H. S., 4J107, 5J51
 Herz, D., 4B89
 Herzmann, E., 3D61, 3D100
 Herzmann, H., 3D14, 3D99
 Herzog, G. F., 1B49
 Hess, W. B., 2J141
 Hesse, A., 1D21, 1D22
 Hessels, M., 4D306
 Hester, R. D., 5A31
 Hetper, J., 3C52
 Hetzler, H. L., 1D107
 Heuck, C. C., 2D257
 Heumann, K. G., 2B49, 2B108, 3B24, 6B50, 6B142
 Heurte, P. Y., 4D59
 Hewins, M., 1J48
 Hey, M. H., 4B161
 Heyerdahl, E. K., 2H26
 Heykants, J., 1D68
 Heyndrickx, A., 1D65, 6D55
 Heyne, W., 4B102
 Heyraud, A., 2D123
 Hiatt, M. H., 4B139, 5F41
 Hibi, K., 1D200
 Hicks, K. W., 4J93
 Hicks, R. E., 2D117
 Hidaka, Y., 2J148, 2J149
 Hidalgo Hidalgo de Cisneros, J. L., 1B64, 3F50, 5H80
 Hidy, B. J., 4D76
 Hiebel, J., 5F8
 Hiebert, R. C., 3J131
 Hieftje, G. M., 1J126, 4J88, 5J110
 Higashi, T., 3D72
 Higashikuze, H., 3D251
 Higgins, H. W., 2D51
 Higgins, R. C., 6D227
 Higgins, T., 3D287
 Higgs, D. G., 3C119
 Hiirio, K., 4B67
 Hijazi, N. H., 5H31
 Hikida, K., 1D83
 Hildebrandt, W., 1D135
 Hileman, F. D., 3C65
 Hilker, D. R., 1H84, 3C86
 Hill, A., 2D190
 Hill, B. J., 4D238
 Hill, D., 1D171, 5D87
 Hill, G. T., 4E63
 Hill, H. H., jun., 2J73, 5H24
 Hill, J. O., 6C34
 Hill, R., 3D82
 Hill, R. A., 5B2
 Hill, R. L., 1D280
 Hill, W. B., jun., 2J19
 Hillan, W. J., 6C56
 Hillenkamp, F., 1J154
 Hiller, J., 3B83
 Hilliard, R., 5C24
 Hillmer, T., 3B176, 4J99
 Hills, J. F., 3D88
 Himmelsbach, D. S., 6G18
 Himuro, A., 4C20
 Hindin, E., 2H90
 Hindmarsh, K. W., 3D56
 Hine, D. G., 4D152
 Hinkley, J. E., 4D14
 Hino, S., 4D117
 Hinokuma, S., 3B120
 Hinson, J. A., 5D8
 Hinton, E. R., jun., 5D17
 Hintz, C. S., 3D276
 Hintze, W. W., 2C102
 Hippe, E., 4D302, 5D195
 Hippe, Z., 6C1
 Hippmann, D., 1D81, 1D82
 Hirai, A., 4D161
 Hirai, E., 3D90
 Hirai, S., 5F49
 Hirai, Y., 1H62
 Hiraide, M., 4H38, 5H50
 Hiraki, K., 1B90, 2E44, 4H80
 Hirama, Y., 2H87
 Hirano, D. S., 2C20
 Hirano, K., 1D147, 1D259, 3D260
 Hirano, M., 1D124
 Hirashima, T., 2C52
 Hirata, Y., 4J27, 6J33
 Hirayama, C., 4J48
 Hirayama, T., 1H66
 Hirobe, M., 6D113
 Hirogome, T., 5D150
 Hirokawa, K., 5B102
 Hirokawa, T., 3J45, 5J73
 Hiros, K., 2H41
 Hirose, F., 6B155
 Hirose, J., 2D305
 Hirose, S., 2D29, 5D75
 Hirota, M., 2H9
 Hirsch, R. F., 1C19
 Hirschfeld, T. B., 6C59
 Hirschy, L., 1J132
 Hirschy, L. M., 4E22
 Hisamura, M., 3D161
 Hisayuki, T., 6B62
 Hitchen, S. M., 1J40
 Hites-Papp, E., 2F15
 Hiu, Hengchuan, 6B70
 Hjalmarrsson, S., 4F7
 Hjerpe, A., 4D143
 Hlavay, J., 1H32, 5H25
 Hlawiczka, S., 4J6
 Hnilica, L. S., 4D236
 Ho, C.-N., 3J89
 Ho, C.-T., 3F24
 Ho, F. F. K., 2D253
 Ho, F. F. L., 2J157B
 Hobbs, P. J., 5B13
 Hobby, P. C., 6J139
 Hobdell, M. R., 3B23
 Hobe, G., 3D70
 Hobo, T., 3C5
 Hochberg, F., 4D119
 Hock, J. L., 4H5
 Hockeborn, M., 1D264
 Hockridge, M. E., 4G2
 Hodes, M. E., 4D325
 Hodges, M. G., 3C82
 Hodgins, L. W., 6G8
 Hodgson, K. O., 5J98
 Hodisan, T., 3C47
 Hodson, A. W., 2D291
 Hoefelmann, M., 3D288
 Hoehner, P., 2H17
 Hoek, F. J., 6D282
 Hoeltling, C. R., 1D52
 Hoenders, H. J., 5D154
 Hoening, M., 6D17
 Hoepfner, B., 1D208
 Hoetzel, D., 4D299
 Hofer, W. O., 3B5
 Hoffbauer, G., 1D272
 Hoffelt, J., 2F17
 Hoffman, A., 3J158
 Hoffman, J. J. M. L., 2D45
 Hoffmann, B., 3F22
 Hoffmann, D., 3D138
 Hoffmann, G., 3B179
 Hoffmann, G. E., 1D268
 Hoffmann, H., 1J74
 Hoffmann, J. J. M. L., 1D157
 Hofman, H., 1E58, 6E51, 6E55
 Hofmann, A. F., 2D188
 Hofmann, S., 4B12
 Hofmanova, A., 4E25
 Hofmeister, S. K., 4B46
 Hofschreuder, P., 5H7
 Hogan, D. L., 1D168
 Hogan, E. L., 3D173
 Hogg, A. M., 1J160
 Hohne, B. A., 6J67
 Hojabri, H., 4D80
 Hokama, Y., 4D254
 Hokin, B. D., 2D283
 Hokse, H., 3C27
 Holak, W., 5F1
 Holcombe, J. A., 5J116, 6D35
 Holder, C. L., 4G12
 Holding, S. R., 5J62
 Holdren, M. W., 5H24
 Holen, B., 1B136
 Holford, R. M., 2J158
 Holgye, Z., 6D30
 Holland, D., 3D273
 Holland, D. A., 3G1
 Holland, James F., 1D54
 Holland, John F., 1J133, 3J124
 Holland, M. K., 5B91
 Holland, R., 2B179
 Holland, R. A., 4C35
 Holland, W. J., 3B39, 3B56, 3B159, 3B163
 Hollander, T., 5J112
 Hollingsworth, T. A., jun., 4F41
 Hollis, B. W., 5D192
 Hollo, J., 1F53
 Holloway, P. H., 4B46
 Holly, J. M. P., 2D194
 Holm, E. T., 4G3
 Holman, G. J., 3G14
 Holman, R. B., 6D212
 Holmes, L., 2H11
 Holmes-Siedle, A., 5B187
 Holmsen, H., 5D6
 Holmstedt, B., 2D32
 Holobrada, M., 5G3
 Holstein, W., 4J32
 Holt, D. L., 3F2
 Holt, D. M., 4J122
 Holt, D. W., 1D87
 Holt, G., 2E20
 Holtham, A. L., 1E59
 Holthuis, J. J. M., 6D124
 Holtzapfle, M. T., 5C76
 Holtzman, J. L., 5D47
 Holupirek, M., 2D269
 Holy, H. W., 1J11
 Holynska, B., 5H53
 Holz, F., 5F4
 Holzbecher, J., 1B10, 5H77
 Holzbecher, Z., 1J136
 Holzer, A., 5J102
 Home, J. M., 3C119
 Homsher, M. T., 3C84
 Honda, K., 6D209
 Honda, S., 2D118, 3D261, 5D119, 6D200
 Hondo, T., 4D320
 Honeyball, W. A., 3C87
 Hong, J.-S., 5D128
 Hong, T., 6J137
 Honig, D. H., 4G2
 Honma, M., 5F52
 Honma, N., 1B204
 Honma, T., 5D120
 Honour, J. W., 1D138, 6D186
 Hoogmartens, J., 3E25
 Hooley, D. J., 2J9
 Hoover, D., 6D172
 Hopke, P. K., 3J159
 Hoppel, C. L., 3D216, 6D79
 Hopple, J., 2B121
 Hopwood, J. J., 5D213
 Horacek, J., 4D127
 Hori, M., 2B136
 Hori, T., 5H55
 Horigome, T., 3D221
 Horikawa, R., 1C29
 Horiki, Y., 4F21
 Horisaka, K., 4D217
 Horinuchi, K., 3G10
 Horlick, G., 2J113, 2J119
 Horman, I., 6C15
 Horn, A. S., 6D129
 Horn, E., 6J125
 Horna, A., 6C21
 Horner, S. M. J., 3H83
 Horning, E. C., 5D110
 Hornova, L., 6C21
 Horowitz, P. M., 2J7
 Horrocks, L. A., 2D134
 Horvai, G., 1E5
 Horvat, R. J., 4F53, 6F49
 Horvath, J., 1J25
 Hosako, K., 5B3
 Hosch, J. W., 6J100
 Hosen, H. R., 5H9
 Hoshi, M., 6B167
 Hoshi, S., 4B155
 Hoshika, Y., 2H30
 Hoshino, H., 1B125
 Hoshino, T., 1D110
 Hoshino, Y., 4E37
 Hoshita, T., 3D192
 Hosoda, S., 4D231
 Hosoya, M., 4B181
 Hospattankar, A. V., 3D171
 Hoste, J., 2H47, 4J125, 5J130, 6B53
 Hostettmann, K., 5J20
 Hostomska, Z., 1C26, 5D155
 Hotchkiss, J. H., 4F18
 Hotz, J., 4D27
 Hou, Y., 5G31
 Houba, V. J. G., 4D22
 Houdayer, A. J., 1B202
 Houghton, C., 6D137
 Houk, R. S., 4J105
 Houllier, A. M., 6D289
 Houlton, C. A., 2D251
 Hounwanou, N., 5D146
 Housmyer, C. L., 2E68
 Houston, J. B., 6D116
 Houston, S. R., 2D10
 Houx, N. W. H., 5G38
 Howanitz, J. H., 2D241
 Howanitz, P. J., 2D241
 Howard, A. G., 5H35
 Howard, C. C., 2H101
 Howard, W. E., III, 6D49, 6D50
 Howe, L. H., 3H69
 Howe, R. K., 3A32
 Howell, B., 2D259
 Howell, G. A., 1D30
 Howell, J. O., 3J145
 Howse, L., 3G21
 Howson, W., 2D74
 Hozumi, Y., 3B103
 Hrsak, D., 5C68
 Hsia, M. T. S., 3J10
 Hsiao, S., 3D227
 Hsieh, J. Y. K., 2D100, 6D97
 Hsieh, Y. C., 5F53
 Hsing, C.-Y., 4D228
 Hsiung, M.-W., 1D263
 Hsu, A.-F., 2E6
 Hsu, B. H., 6J117
 Hsu, E., 4F29
 Hsu, F. S., 6D11
 Hsu, S., 4C53
 Hu, A., 2H48
 Hu, C., 4J70
 Hu, J., 6G29
 Hu, L., 6D187
 Hu, R., 1C38
 Hu, Y., 4B185
 Hu, Z., 3D193
 Huang, B., 2J111, 6B13
 Huang, C.-H., 5B172
 Huang, Chongyi, 6B150
 Huang, Chungying, 1D35
 Huang, G., 5B69
 Huang, Hanguo, 1B90
 Huang, Huide, 6D187
 Huang, Huiliang, 2H56
 Huang, Huiming, 5B136
 Huang, H. J., 3B48
 Huang, J.-C., 2C14
 Huang, Liang, 6E20
 Huang, Liling, 1E26
 Huang, M., 4B48
 Huang, R. Y.-M., 2J41
 Huang, S.-S., 6J138
 Huang, T., 5B51
 Huang, T.-M., 4D338
 Huang, Z., 1J190
 Hubbard, J. A., 4J69, 5J87
 Hubbard, J. W., 1D123
 Huber, J. F. K., 3J51, 5J56
 Huber, L., 1C77, 6J7
 Huber, R., 1D78
 Huberman, M., 5J24
 Hubert, J., 2C49, 5D103
 Hubl, W., 4D181
 Huck, H., 6D265
 Hudec, A., 5B185
 Hudson, J. R., 2D121
 Hueber, R., 1J151
 Huebert, B. J., 6H13
 Huebert, N. D., 6D77
 Huebinger, E., 1J93
 Huelm, M., 3D126
 Huerta P., R., 6H7

- Huff, J. C., 1D197
 Hufnagel, A., 6B69
 Hufschmidt, R., 3J3
 Huggett, A., 6D82
 Huggett, R. J., 2H82
 Hughes, D. E., 3E31, 6E12
 Hughes, H., 5D110
 Hughes, Hugh, 1B161
 Hughes, H. C., 4D23
 Hughes, J., 4D229
 Hughes, M. J., 6J122
 Hughes, S., 5F68
 Huh, C.-A., 2H51
 Huhtikangas, A., 4E12
 Huiting, E., 2C60
 Huizenga, J. R., 5D20
 Hukkelhoven, M. W. A. C., 2D301
 Hulbert, P. B., 6D272
 Hulett, L. D., 3H178
 Hull, J. D., 2H41
 Hulmston, P., 2J112
 Hulpke, H., 5G26
 Hulshoff, A., 1E2, 2E1, 5E5, 5E6
 Hultberg, B., 1D149
 Human, H. G. C., 6J93, 6J94
 Humbert, G., 1F28
 Hummel, D. O., 5C84
 Hummel, K., 4C79
 Humphrey, A. E., 5C76
 Humphrey, R. L., 6D247
 Humphrey, R. M., 1D228
 Humphreys, J., 1D258
 Humphries-Cuff, P. J., 5J128
 Hung, C. T., 6D95
 Hung, I.-F., 3H36
 Hung, S. O., 3G22
 Hunneman, D. H., 2D139
 Hunt, D. F., 4H68
 Hunt, G., 4D219
 Hunter, C., 4D314
 Hunter, I. R., 2D207
 Hunter, K. W., jun., 4C91
 Huntzicker, J. J., 2H26
 Hunziker, H. R., 6F14
 Huot, S., 1D155
 Hurley, L. S., 3D48
 Hurley, T., 1D189
 Hurry, E. K., 2D285
 Hurst, G. A., 5D23
 Hurst, W. J., 3F18, 5F24
 Hurtubise, R. J., 2C57, 4C61, 4C62, 5J134
 Husain, S., 3C33
 Husar, R. B., 4H16
 Husmann, H., 1J93
 Hussain, M. F., 1B183
 Hussam, A., 3B6
 Hussein, H., 5D157
 Hutchens, D. E., 5A31
 Hutchins, L. D., 2J185
 Hutchison, F. J., 2H45
 Hutin, M. F., 2D44, 3H51
 Hutt, V., 2D166
 Hutzler, J., 4D202
 Huvar, B., 1J104
 Hwang, C. S., 2J151, 2J152
 Hwang, H. L., 4B213
 Hwang, J., 4B73
 Hwang, P. T. R., 4D62
 Hynie, I., 2D264
 Hyppanen, T., 5C18
 Iannello, M., 2J175
 Iannello, R. M., 2J177
 Ibadov, A. Yu., 5E16
 Ibragimov, R. A., 3B17
 Ibusuki, T., 1H57
 Ichiba, Y., 1D256
 Ichihara, K., 2D224
 Ichijo, O., 6H68
 Ichikawa, K., 3D125
 Ichikawa, N., 2D185
 Ichikawa, S., 1B91
 Ichimura, K., 1D43
 Ichimura, S., 5B181
 Ichinoki, S., 4D25
 Ichinose, N., 4H90
 Ichio, Y., 4D248
 Ichise, M., 5C9
 Ida, H., 4H8
 Ida, S., 4D221
 Ida, Y., 2A23
 Ide, K., 1B179
 Ide, S., 5B11
 Idriceanu, S., 6C38, 6C85
 Idris, A. B., 1J117, 2J99
 Idriess, S. D., 4D317
 Igarashi, R., 5B17
 Igarashi, Shukuro, 2B8, 2B40
 Igarashi, Shunji, 2H9
 Igarashi, Y., 6D89
 Igic, R., 4D330
 Ignaczak, M., 1C22
 Ignasheva, E. A., 5B106
 Ihida, M., 4B169
 Ihimoto, M., 3D161
 Ihlal, L., 4F75
 Iida, T., 2D187
 Iida, Y., 2H88, 3C64, 6C51
 Iimura, O., 4D231
 Iio, A., 1D210
 Ijitsu, T., 2D61, 2D272
 Ikeda, K., 3D127
 Ikeda, M., 3D158
 Ikeda, S., 2B18, 4B56
 Ikeda, Teruki, 1D200
 Ikeda, Tomonari, 2B123
 Ikeda, Toshihiko, 3A15
 Ikramov, L. T., 6D145
 Ikramuddin, M., 6B66
 Ilczuk, I., 1D67
 Ilic, M. Z., 5F34
 Il'in, E. G., 3J139
 Il'in, M. A., 6B90
 Il'in, N. P., 6G2
 Il'inskii, G. V., 6J78
 Il'kova, S. B., 1B86
 Illarionova, E. N., 1G19
 Ilsemann, K., 1D216
 Imaeda, K., 4J132
 Imagawa, M., 1D209, 1D211, 4D248
 Imai, H., 1D178
 Imai, J., 3D313
 Imai, K., 1D174, 2C10, 4D196, 5D117, 6D209
 Imai, S., 6H16
 Imaki, K., 4D68
 Imamura, I., 5D127
 Imanaka, S., 2D232
 Imanari, T., 1D39, 2B144, 2D55
 Imaoka, S., 2D141
 Imasaka, T., 6H12
 Inmel, W., 6B169
 Immer, U., 3D99
 Imonivverha, B. S. O., 3E44
 Imoto, T., 4D225
 Imou, M., 5F35
 Improta, C., 6B86
 Imura, H., 1D209
 Imura, Hisanori, 6C30
 Inada, M., 1D209
 Inagaki, K., 2D36
 Inamoto, I., 1B168
 Inatsuki, S., 1D210
 Inczedy, J., 1B190, 1H32, 5H25
 Inda, Y., 5J36
 Indemans, A. W. M., 1E2, 1J46, 2E1, 5E5, 5E6
 Indrasenan, P., 1A16
 Ingalls, S. T., 3D216, 6D79
 Innanen, V. T., 2D52
 Ino, S., 2D299
 Ino, Y., 2D50, 2J75
 Inoko, M., 3B169
 Inoue, H., 2D296
 Inoue, J., 6J1
 Inoue, Kazuhide, 6D85
 Inoue, Kenji, 2D102
 Inoue, M., 5F35
 Inoue, S., 4B155
 Inoue, T., 1D77
 Inoue, Y., 1H49
 Inouye, H., 4E19
 International Federation of Clinical Chemistry, 5D14
 International Union of Pure and Applied Chemistry, 1A4, 4A13
 4B87, 4H1, 5A11, 5H26, 6D5, 6F73
 Iofa, B. Z., 4B68
 Ioffe, B. V., 6H20
 Iokhin, B. S., 6B71
 Ionov, V. P., 3B30
 Iordanov, N., 4J81
 Iordanov, Yu. H., 4J81
 Iorio, M. A., 3C68
 Iosipchuk, B. V., 4B145
 Iosof, V., 6B96
 Ipach, R., 2G19
 Ippolitov, I. I., 5H11
 Iqbal, M., 3B61, 6J48
 Ireland, Y. R., 6F9
 Irgolic, K. J., 2J35
 Irgum, K., 6J5
 Iribarne, J. V., 1J173
 Irimura, T., 5D92
 Iriyama, K., 1D200, 2D195, 4D190, 4J134
 Isaac, K., 4C19
 Isaac, R. A., 2G2
 Isaacs, M. D. J., 5C89
 Isaev, V. B., 6C50
 Isakov, M. Yu., 1C62
 Isebaert, A., 4J125
 Isenberg, J. I., 1D168
 Isenburg, A., 3B18
 Isenhour, T. L., 6A27, 6J67
 Ischenko, V. B., 5B47
 Ishibashi, N., 6H12
 Ishibashi, T., 3F5
 Ishida, H., 4D231
 Ishida, K., 6B177
 Ishigaki, A., 1C39
 Ishigaki, M., 5J59
 Ishiguro, Y., 2D248
 Ishii, D., 2J32, 3C115, 3H59
 Ishii, H., 1B85, 3B147
 Ishii, Kazuhiro, 2E53
 Ishii, Keizo, 5B82
 Ishii, Koichiro, 4H12
 Ishii, R., 4F8
 Ishii, Y., 1D110
 Ishikawa, E., 1D209, 1D211, 4D248, 4D253
 Ishikawa, I., 1B91
 Ishikawa, Kaoru, 1D205
 Ishikawa, Koichi, 3D57
 Ishikura, F., 1B181
 Ishikura, T., 2E22
 Ishine, M., 1D210
 Ishino, F., 6D213
 Ishitani, H., 1H65
 Ishitobi, W., 6C81
 Ishiwata, H., 2E14
 Ishiwatari, R., 5H86
 Ishizaki, T., 5D26
 Ishizuka, T., 5J126
 Isidorov, V. A., 6H20
 Iskandarani, Z., 2H59
 Islam, A. K. M. S., 6G4
 Ismail, F. A., 6F21
 Isobe, T., 4B108
 Isozaki, A., 2H66
 Issa, Y. M., 3A18
 Issahary, D., 1B119
 Issaq, H. J., 2J29, 6J31, 6J53
 Itagaki, Y., 3J125
 Itakura, H., 6D251
 Itano, T., 1D43
 Itho, T., 5C88
 Itiaba, K., 1D263
 Ito, A., 2C52
 Ito, H., 1D210
 Ito, Keiji, 2D75
 Ito, Kozi, 4B175
 Ito, Masayoshi, 2D274
 Ito, Mino, 1B159
 Ito, Mitsuo, 3F28
 Ito, Seishi, 2F8
 Ito, Shosuke, 6D164
 Ito, T., 6D108
 Ito, Yoichiro, 5J23, 5J24
 Ito, Yoshimasa, 1D147, 1D259, 3D260
 Ito, Yoshio, 2F7, 2F8, 2F9
 Itoh, A., 3B103
 Itoh, H., 1E79
 Itoh, K., 1D33, 1D42
 Itoh, Y., 2H72
 Itoi, T., 2B25
 Itokawa, H., 4J31
 Itsuki, K., 2B123
 Ivan, L., 3C49
 Ivanetich, K. M., 2D65
 Ivanisenko, V. H., 4E35
 Ivanov, A. B., 2J93
 Ivanov, L., 1J187
 Ivanov, O. V., 3B30
 Ivanov, S. G., 1H13
 Ivanov, V. M., 1B45, 1B74, 1B185, 1B187, 2B38, 2B141, 3B37, 3B131, 5A22
 Ivanov, Yu. A., 6J161
 Ivanov, Yu. M., 1E13
 Ivanov, Z., 4C90
 Ivanova, E., 5B20
 Ivanova, E. I., 3B45
 Ivanova, F. A., 4J103
 Ivanova, I. F., 5H78
 Ivanova, M. M., 4J121
 Ivanova, N. I., 1C37
 Ivanova, R., 1A3
 Ivanova, T. I., 1J97
 Ivanova, V., 2F41, 3E67
 Ivanyukovich, G. A., 1B111
 Ivaska, A., 2E25
 Ivie, G. W., 5F36
 Iwahori, S., 1B61
 Iwai, H., 3B21
 Iwai, K., 5D124
 Iwai, Y., 1B160
 Iwaida, M., 2F7, 2F8, 2F9
 Iwamoto, T., 2D195, 4D190
 Iwan, M., 3C116
 Iwasinska, I., 4B110
 Iwata, J., 2D243
 Iwata, K., 6D105
 Iwata, Yasuo, 6G7
 Iwata, Yutaka, 1G35, 6G38
 Iwu, M. M., 1E45
 Iyer, C. S. P., 6B135
 Iyer, S. G., 3B47
 Iyer, V., 6B145
 Izaki, Y., 4B150
 Izdebska-Ciagwa, A., 1C80
 Izod, T., 4C14
 Izquierdo, A., 5B25
 Izquierdo, D., 6F74
 Izquierdo-Hornillos, R., 2B46, 4B83
 Izutsu, K., 5H63
 Izvekova, V. P., 3J139, 6J141
 Izzatullah, 3C15
 Jablonski, A., 2B7
 Jabs, H. U., 4D167
 Jacintho, A. O., 1J130
 Jackman, G. P., 5D62
 Jackson, H. J., 2D252
 Jackson, K. W., 1G13
 Jackson, P. F. S., 1B170
 Jackson, W. P., 5C82
 Jacob, J., 1C70, 6H29
 Jacob, K., 1D223, 1H80, 2D104
 Jacob, M., 1B73
 Jacob, R. A., 3D252
 Jacobi, R., 6B176
 Jacobs, E., 3J50
 Jacobs, F. S., 1C67
 Jacobs, F. W., 3J96
 Jacobs, J. M., 5D201
 Jacobs, N. J., 5D201
 Jacobson, B. E., 2D47
 Jacobson, R. A., 5F19
 Jad, C. Y., 2D236
 Jaeger, H., 2D88
 Jaffe, H., 5D147
 Jaffe, J. H., 1D108
 Jagner, D., 4J141
 Jagota, S. K., 1D250
 Jahn, R., 5D171
 Jahngen, J. H., 5D187
 Jahns, G., 2H96
 Jahr, D., 1F25
 Jain, A. K., 2J170, 3B26, 6B30

- Jain, C. K., 6J146
 Jain, K. K., 5C42
 Jain, P., 1B180
 Jaiswal, D. D., 6D21
 Jalbert, R. A., 6J6
 Jamali, F., 3D124
 Jambunathan, R., 4G4
 James, H., 5C17, 5F26
 James, H. A., 5H87
 Jamieson, W. D., 2H89
 Jamroz, M., 6C87
 Janata, J., 2J167
 Janczyszyn, J., 4J126
 Jandera, J., 4C1
 Jandera, P., 1C31, 1J44, 2J26, 3J24, 6C72
 Janer del Valle, C., 5F76
 Janezic, M., 1A29
 Janicki, W., 6H3
 Janik, B., 2D268
 Janini, G. M., 2J29
 Janitsch, A., 5B99
 Jankauskas, V., 3B38
 Janke, D., 6B153
 Jannasch, R., 6E35
 Jannuzzo, M. G., 6D65
 Janousek, I., 2B147, 6B156
 Janowski, A., 1B83
 Janse, T. A. H. M., 6A8
 Jansen, A. P., 1D253, 3D184
 Jansen, J., 5J112
 Jansen, R. T. P., 1D253, 2D21, 5D1
 Jansons, E., 3A14
 Janssen, F., 1C57
 Janssen, O., 5C52
 Janssens, E., 2H47, 5J130
 Jansson, B., 3D143
 Jantsch, D., 2D19
 Jaouhari, R., 3C113
 Jaramillo, A., 2J178
 Jaroniec, M., 2J30
 Jarosz, J., 4H78
 Jarret, M., 4H76
 Jarrett, B., 2B95
 Jarvie, T., 4D200
 Jarzabinski, J., 1E30, 1E54, 3D210, 3E5, 3E27, 3E28, 3E29
 Jaskola, M., 3J67
 Jaskot, R. H., 4D307
 Jasper, C. G. G., 1J96
 Jasse, B., 5J48, 6J36
 Jatlou, P. I., 1D102, 3D321B
 Jauch, R., 4D48
 Jauge, P., 5D191
 Jaworski, M., 6C10
 Jaya, S., 5B138, 6B171
 Jayanty, R. K. M., 3H27
 Jayarama, 5B123
 Jeanroz, R. W., 6D151
 Jeansonne, N., 2D126
 Jedinakova, V., 5B89
 Jeffcoat, A. R., 1D238
 Jefferies, T. M., 4D106, 6D128
 Jegge, S., 4D244
 Jehring, H., 6J125
 Jelikic, M., 6B31
 Jelinek, J., 1F26
 Jellenz, W., 1D172
 Jeltama, M. A., 6D11
 Jelus-Tyror, B. L., 3C86
 Jemli, B., 1B98
 Jenden, D. J., 4D205
 Jenik, J., 4C74
 Jenke, D. R., 3J37, 4J86, 6B10
 Jenkins, R., 5J78
 Jenkins, R. K., 5F33
 Jenkins, S. J., 2D239
 Jennings, B. R., 3J160
 Jennings, K. R., 3C83
 Jennings, W., 4F54, 4J66
 Jennings, W. G., 5J78, 6J73B
 Jennison, T. A., 4D50
 Jensen, A., 1B51, 5H90
 Jensen, F., 4F51
 Jensen, J. W., 5D235
 Jensen, K. M., 6D57
 Jensen, R. G., 5D214
 Jensen, R. L., 6D37
 Jentsch, T., 3J111
 Jerabek, P., 6D38
 Jernberg, M. J., 1D88
 Jervis, R. E., 2B170
 Jetley, U. K., 4B192
 Jett, J. H., 5C73
 Jezequel, M., 6D176
 Jezorek, J. R., 3J19
 Jha, S. S., 2J132
 Jia, D., 3B78
 Jiang, J., 6G29
 Jiang, K., 1F56, 3H8
 Jiang, S., 1H34
 Jiang, S.-M., 5C13
 Jiang, T., 5B96
 Jiang, Xingzong, 4B7
 Jiang, Xuying, 3D193
 Jiang, Z., 2B62
 Jiao, K., 4B85, 6B67, 6B195
 Jien, P.-X., 6J111
 Jilkova, D., 3D199
 Jimbo, H., 4D161
 Jimenez, A. I., 5B149
 Jimenez, C., 4B107
 Jimenez, F., 5B149
 Jimenez Ruedas, M., 3B132
 Jimenez, E., 3D311
 Jimmo, S., 3D112
 Jin, H.-L., 4D228
 Jin, H.-Z., 4D228
 Jin, J., 6J107
 Jin, Q., 4H61
 Jin, Q. Z., 3F24
 Jin, S., 3H20
 Jin, T., 1J192
 Jin, Z., 3B66
 Jindal, S. P., 1D74
 Jinks, S., 3D268
 Jinno, K., 1C39, 3B2, 4B26, 4J27, 4J41, 5J59, 6J33, 6J35
 Jizba, J. V., 2E62
 Jochum, P., 2J176
 Johann, H., 2F18
 Johannessen, R. O., 4C63
 Johansen, N. G., 2C63, 5C53
 Johansson, C. G., 6F3
 Johansson, G., 1B127, 1J15
 Johansson, G. I., 1J181
 John, R., 1D207, 3D219
 John, V. A., 4D203
 John, W., 2J6
 Johns, R. B., 1D219, 5C63, 5C64
 Johns, W. H., 6E17
 Johnsen, H., 1D69
 Johnson, C. C., 5J49
 Johnson, D. A., 5D140
 Johnson, D. C., 5F68, 5J13
 Johnson, D. E., 2H99, 2H108
 Johnson, E. L., 1B19
 Johnson, F. A., 1C103
 Johnson, G. D., 2C16
 Johnson, H. R., jun., 1J84
 Johnson, J., 5D35
 Johnson, J. R., 5D51
 Johnson, K., 4G10
 Johnson, K. E., 5H60
 Johnson, L., 2C26, 3D144
 Johnson, M. E., 4F49
 Johnson, M. H., 5D158
 Johnson, M. K., 6J106
 Johnson, P. M., 6D278
 Johnson, P. R., 1D141
 Johnson, R. L., 1H40
 Johnson, R. N., 1D214, 1E35
 Johnson, S. L., 2D170
 Johnson, W. C., 2G2
 Johnston, C. A., 3D205
 Johnston, C. I., 3D226
 Johnston, D. A., 6D225
 Johnston, H. H., 3D65
 Johnston, M. I., 3D313
 Jokl, V., 2E2
 Jolliffe, G. H., 1E15
 Jolliffe, G. O., 1E15
 Jonckheere, J. A. A., 1J182, 2D92, 2D182, 4D52
 Jondiko, I. J., 1G40
 Joner, P. E., 2F12
 Jones, A., 3J26
 Jones, A. B., 6E22
 Jones, C. A., 4D229
 Jones, C. E. R., 4B209
 Jones, C. R., 6D114
 Jones, D., 1D109
 Jones, D. P., 1D237
 Jones, D. W., 4C47, 6C60
 Jones, E. A., 4B168
 Jones, F. E., 4B24
 Jones, I. P., 2J83
 Jones, J. B., jun., 2G5
 Jones, J. S., 4B152
 Jones, L. V., 1E59
 Jones, M. I., 4D238
 Jones, M. J. T., 4D316
 Jones, P., 5B13
 Jones, P. F., 2D66
 Jones, R. A., 2H37
 Jones, R. N., 1J138
 Jones, T. A., 5J8
 Jones, T. C., 3J127
 Jones, W. E., III, 5H88
 Jones, W. J., 3E78
 Jonker, R. J., 3J51
 Jonkman, J. H. G., 6D103
 Jonnalagadda, S. B., 1B43
 Jonson, S., 1E4
 Jonsson, J., 3D54
 Jonsson, S., 2J102
 Jonvel, P., 3E35
 Joos, L., 2D176
 Jordan, P. M., 5D233
 Jordan, R. L., 4A29B
 Jordan, V. C., 3D121
 Jorde, H., 1C119
 Jorgen, S., 4J37
 Jorgenson, J. W., 4B109
 Joshi, B. C., 5B36
 Joshi, B. D., 5B87, 5B88, 6B76
 Joshi, B. M., 5H12
 Joshi, L. U., 3H48, 3H54
 Joshi, S. K., 4E4, 4E65
 Joshi, S. V., 4J19
 Joshi, U. M., 4D249
 Josphura, M. H., 2C40
 Jost, W., 3E22, 5J75, 6J52
 Jouany, J. P., 2D132
 Jouany, M., 1D252
 Jousimaa, K., 1B199
 Jousot-Dubien, J., 3C71
 Jouve, J., 6D202
 Jowett, D. A., 3D81
 Jowett, P. L. H., 5J117
 Joy, D. C., 5B144
 Joyce, W. F., 5C61
 Jozefonvicz, J., 2D124
 Juhara, M., 6J44
 Juffmann, F., 1D172
 Juhai, E., 3B46
 Juhala, J. A., 1J2
 Jui, H., 1D54
 Juin, C., 1J167
 Jukar, S., 4E49
 Jukofsky, D., 1D72
 Julien-Larose, C., 2D91, 2D94
 Junack, M., 4D300
 Jung, G., 3D63
 Junglas, H., 3J113, 5J54
 Jungmann, E., 2D107
 Jupille, T., 1H56
 Juras, N., 6D189
 Jurczak, J., 1C1
 Jurczyk, J., 4B187
 Jurecek, M., 3C10, 3C11
 Jurenitsch, J., 2E18
 Jurgaitiene, P., 3G34
 Jurs, P. C., 4C37, 6A26, 6C32
 Jusiak, L., 1E16, 1E17
 Jusserand, C., 1H14
 Just, G., 6B191
 Justice, J. B., jun., 2J178
 Kabanov, V. S., 6D157
 Kabasawa, Y., 2D144
 Kabeya, H., 5H71
 Kabiell, A. M., 5J122
 Kabra, P. M., 3D77, 4D66, 4D176, 6D25
 Kabus, P., 2D208
 Kacharova, M., 1E37
 Kachin, S. V., 1B79, 3B37
 Kacprowicz, A. T., 3D129
 Kadar, I., 3B59
 Kadar, M., 3J151
 Kadinger, C. L., 3D17
 Kadish, K. M., 1J195, 1J196, 4A16
 Kadohata, K., 4H90
 Kaegler, S., 2C61
 Kafarova, A. A., 2B58
 Kaffka, K. J., 1F40
 Kagan, L. M., 6B59
 Kagedal, B., 3D225, 6D40
 Kagenow, H., 1B51
 Kahn, A. S., 2B11
 Kahn, G. C., 2D307
 Kahn, H. L., 1J121, 2J105, 5J119
 Kainz, G., 2H67, 6H25
 Kaiser, M. L., 1J112
 Kaiser, R. E., 5A2
 Kajefz, F., 1E58, 6E51, 6E55
 Kaji, H., 3D161
 Kajinuma, H., 3D125
 Kajiwara, K., 4F62
 Kakac, B., 6E26, 6E53
 Kakehi, K., 2D118, 3D261, 5D119, 6D200
 Kakizaki, S., 3B103
 Kakkur, L. R., 1B140
 Kala, H., 6E40
 Kalasinsky, K. S., 6G33
 Kalasinsky, V. F., 5C47
 Kalasz, H., 3D130
 Kalavathy, R., 2D193
 Kalavska, D., 2B124
 Kaldis, E., 5B189
 Kalhorn, T. F., 1C27
 Kalicki, A., 3B117
 Kalidas, K., 4B32
 Kaliner, M., 1D161
 Kalinichenko, I. E., 1C8
 Kalinin, B. D., 6J76
 Kalinin, Yu. T., 1J45
 Kalinowski, K., 1B186, 6B178
 Kalitovich, I. N., 5H23
 Kalivas, J. H., 3A5, 4A25
 Kallay, Z., 4D108, 6D99
 Kalberg, M., 6D40
 Kaller, R. S., 3J92
 Kallmann, S., 1B15
 Kalmakov, A. A., 2J109
 Kalmanovskii, V. I., 5J21
 Kalmykov, V. I., 6B97
 Kalmykova, I. S., 2B64
 Kalous, J., 4A18
 Kalvoda, R., 6J133
 Kalyuzhnyi, A. V., 5B167
 Kam, S.-T., 1C27
 Kamachi, S., 4D322, 4D323
 Kamada, H., 6J111
 Kamada, S., 3D190
 Kamaev, A. V., 1E8
 Kamakura, K., 4H72
 Kamalapurkar, O. S., 1E64, 3E57, 4E50, 4E60, 4E80
 Kamat, R. P., 4E24
 Kamata, E., 1D34
 Kamata, K., 2C94
 Kambara, H., 4B118
 Kambara, T., 4B167
 Kambe, H., 5D127
 Kamil, F., 3B152, 6B32
 Kamini, 6B170
 Kaminski, B., 1E47
 Kamkamidze, D. K., 2B50
 Kamlesh, 1B23
 Kamoun, P. P., 2D217, 4D210
 Kampstra, N., 5J83
 Kan, H., 1D209, 4D253
 Kan, T., 2C94
 Kanagasabapathy, L., 4G21
 Kanamori, S., 3H84
 Kanbayashi, M., 3D221
 Kanda, K., 3D39
 Kanda, Y., 1D77
 Kandrnal, J., 1J104
 Kane, N., 1E36
 Kaneda, N., 1D170
 Kanematsu, H., 3F54

- Kaneyama, Y., 5E22
 Kang, Z., 1F56, 3H8
 Kaniyansky, D., 3J46
 Kanmei, Y., 3J125
 Kannan, R., 3D113
 Kannisto, H., 2D287
 Kanoh, H., 5C79
 Kanoh, S., 3F28
 Kant, R., 4B197
 Kantor, T., 1C118, 5B50
 Kanzler, M., 1D108
 Kapas, M., 4D125
 Kapeghian, J., 6D268
 Kaplan, E., 5D31
 Kappelgaard, A. M., 1D186
 Kapul'skii, A. E., 6J10
 Karabanov, N. T., 2C72, 5C25, 6C28
 Karadzhova, Ts. G., 4C84
 Karaseva, E. A., 3C69
 Karayannis, M. I., 6J148
 Karel, M., 5F53
 Karger, B. L., 3J29, 5J27
 Karim, F., 4D289
 Karjalainen, E. J., 5A28
 Karjalainen, U., 5A28
 Karkhanis, S. S., 1E57
 Karkocha, I., 3F26
 Karlberg, B., 1B11
 Karlberg, B. I., 2J10
 Karlcek, R., 1J12
 Karlivans, V., 4C82
 Karlsen, J., 4F12
 Karlson, R. L., 6D52
 Karlsson, B., 3D257
 Karlsson, H., 1E4
 Karlsson, K. E., 1C32
 Karnatz, N. N., 3E55
 Karnaukhov, A. I., 4B145
 Karol, R. J., 2D148
 Karolev, A., 3B88
 Karoum, F., 1D150
 Karp, M. T., 3D275
 Karpukova, O. M., 1G19
 Kartashova, G. I., 5H78
 Karube, I., 3B100, 6J13
 Karyakin, A. V., 5B169
 Kas, J., 6F23, 6F66
 Kasamatsu, H., 2D225
 Kaschani, D. T., 5C52
 Kashimoto, T., 6H59
 Kashiwagi, Takeshi, 2H88, 6C51
 Kashiwaya, Tsutomu, 1D47
 Kashiwaya, Y., 5C79
 Kasicka, V., 4D235
 Kask, R. Kh., 3D156
 Kasperek, F., 1C53
 Kasper, M. E., 6D254
 Kasprzak, K. S., 4D45
 Kasuga, Y., 4F38
 Kataeva, N. A., 6H66
 Katayama, K., 5D141
 Kateman, G., 6A8, 6A16
 Katic, M., 1J65
 Katin, L. N., 6C50
 Kato, A., 4J17
 Kato, H., 6D113
 Kato, I., 3G23
 Kato, Kanefusa, 1D205, 2D248, 3D75, 3D317
 Kato, Keiichi, 4B14
 Kato, N., 2B109
 Kato, S., 2E31
 Kato, Tadao, 3C109
 Kato, Takao, 2J75
 Kato, Taro, 2F7
 Kato, Y., 6B187
 Kato, Yoshio, 2D234, 3D235
 Katoh, Kazuo, 2D302
 Katoh, Kenji, 4B118
 Katoh, Koji, 6D249
 Katoh, T., 3B2
 Katoh, Takashi, 6C61
 Katskov, D. A., 6J88
 Katsumata, Y., 2D106, 3D140
 Kattanek, S., 5C8
 Kattermann, R., 1D217
 Katyal, M., 2B163, 3B133
 Katyshev, V. N., 6B85
 Katyukhin, V. E., 3C16
 Katz, E., 5J42
 Kauahikaua, S. M., 5D84
 Kauffmann, J. M., 6F1
 Kaufman, V. R., 5C66
 Kaufmann, E., 1J72
 Kaur, B., 1J23
 Kaurov, Y. N., 6D256
 Kavaliunas, R., 1A25
 Kavelina, G. L., 3B125
 Kaviladze, M. Sh., 4J103
 Kawabata, T., 3F5
 Kawaguchi, H., 3B142
 Kawaguchi, Y., 3F54
 Kawahara, K., 3D103
 Kawai, N., 6F5
 Kawai, Satoshi, 2E65, 6D270
 Kawai, Shinzo, 2D75
 Kawakubo, S., 5B112
 Kawamoto, H., 4B166
 Kawamoto, T., 3D251
 Kawamura, H., 6D249
 Kawamura, J., 2E37
 Kawamura, K., 4B170
 Kawamura, Takeshi, 4J134
 Kawamura, Taro, 4G5
 Kawanishi, K., 4J17
 Kawano, H., 2J147, 2J148, 2J149
 Kawano, K., 6D233
 Kawano, M., 2D105
 Kawasaki, H., 3D93
 Kawasaki, K., 3B2
 Kawasaki, T., 3D191
 Kawase, J., 6C66, 6C67
 Kawase, M., 6D197
 Kawashima, I., 1B204
 Kawashima, T., 3B27, 3B120, 3B130
 Kay, B., 4D82
 Kayasth, S. R., 6D21
 Kaye, J. H., 3J132
 Kaykaty, M., 1D94, 1F23, 1F24
 Kazakova, G. M., 3B84, 3B86
 Kazanova, N. N., 1B89
 Kazarinov, M. O., 2E29
 Kazaryan, N. A., 1C107
 Kazemi-Vala, E., 1D109
 Kazlauskas, R., 3B38
 Kazmirchuk, L. V., 4E55
 Ke, J., 2D249
 Kean, E. L., 5D175
 Kearsley, M. W., 2F13
 Keating, D., 2D30
 Keating, M. Y., 6J155
 Kedzierski, B., 4F56
 Kee, C. S., 6D33
 Keegan, M., 4D82
 Keen, C. L., 3D48
 Keene, A. T., 4E9
 Kees, F. K., 6D199
 Kehinde, L. O., 2B170
 Kehry, M. R., 5D139
 Keilsohn, J. P., 4J88
 Keily, H. J., 2E68
 Keiser, J. E., 5D85
 Keith, L. H., 1H73
 Kelemen, J., 1C63
 Keliher, P. N., 1C43
 Kelkar, S. S., 2D236
 Kelker, H., 5A8
 Keller, F., 2D4
 Keller, H., 6D229
 Keller, R. A., 4J72, 5C73
 Keller, R. W., jun., 4D150
 Kellerhals, H., 3J122
 Kellerman, S. P., 3B107
 Kellert, M., 2F5, 6F46
 Kelly, M. A., 4J80
 Kelly, R. C., 5D52
 Kelly, R. W., 4D160
 Kelly, T. J., 3H35, 3H42
 Kelnor, L., 3J101, 3J107, 6J115
 Kemper, P. R., 6J119
 Kempf, J., 1J149
 Kempf, T., 6H41
 Kempster, P. L., 6H35
 Kempton, R. J., 3E69
 Kenawi, I. M., 3A18
 Kendall, C., 2B121
 Kenis, P., 5H89
 Kennedy, B. M., 1D85
 Kennedy, G., 6B95
 Kennedy, J. A., 3A17
 Kennedy, J. F., 3D149
 Kennedy, J. T., 3G20
 Kennedy, J. W., 5A14
 Kennedy, L. D., 2D298
 Kennedy, S., 3D106
 Kennedy, S. M., 1J106
 Kenney, J. A., jun., 4D124
 Kenny, L. C., 1J202
 Kent, J., 6D186
 Kenyon, C. N., 3J58, 3J112, 5J52
 Keomley, G., 4B210, 4H6
 Keough, T., 2C7
 Keown, P. A., 2D74
 Keppler, C., 1D272
 Kerboul, A., 3E34
 Kerek, F., 2D137
 Kerkay, J., 4D134
 Kerner, W., 2D107
 Kerven, G. L., 6G4
 Kessler, A., 1E3
 Kessler, M., 1D132, 2D155
 Kessler, M. J., 1D136
 Kessner, A., 2D294
 Kesson, C. M., 4D278
 Ketchum, C., 4D129
 Ketchum, D. F., 2D205
 Ketelslegers, J. M., 6D223
 Kettrup, A., 3J153
 Kevorkov, A. M., 6B193
 Kezdy, F. J., 1G40
 Khabibullaeva, L. A., 5E16
 Khadeev, V. A., 5B163, 6B40, 6B175
 Khadzhinikolova, S., 3B40
 Khaidarov, R. A., 2B14
 Khaidukova, N. I., 1B146
 Khairy, E. M., 6B168
 Khakhalkina, I. G., 5B63
 Khalifa, S. M., 6B100
 Khalizova, V. A., 5B175
 Khalyapin, S. A., 4J10
 Khamidov, B. O., 5B46
 Khamis, S., 3E13
 Khan, Atika, 1H12
 Khan, Axel, 1D261
 Khan, A. H., 6H9
 Khan, A. S., 4B120
 Khan, M. A., 6J48
 Khan, S. A., 5G1, 6E33
 Khanamiryan, Kh. M., 1C13
 Khanna, J. M., 5D44
 Khanna, N., 3E12
 Kharat, R. B., 2B119
 Kharlamov, I. P., 2B130, 3B28, 4B143, 4B184
 Kharsan, R. N. S., 3B32
 Khaskin, I. G., 3C29
 Khatkhatay, M. I., 4D249
 Khatoon, F., 4B91
 Kheifets, L. Ya., 2H57
 Kheiker, D. M., 2J93
 Khemani, L., 1D76
 Khesina, A. Ya., 6H4
 Khintibidze, L. S., 3B121
 Khitrov, V. G., 3J77
 Khitrovo, I. A., 6H4
 Khlyupina, L. L., 5B63
 Khmelevaya, L. P., 6C88
 Khmel'nitskii, G. S., 5H11
 Kho, B. T., 1E35
 Khodzhamberdyeva, A. A., 2B94
 Kholodnyi, L. P., 6B90
 Khol'yavko, E. P., 2B94
 Khomutova, E. G., 4B201
 Khopkar, S. M., 1B87, 3B124, 5B75
 Khor'kova, M. A., 3B34, 3B36, 4B55
 Khosah, R. P., 2C34
 Khotimchenko, S. V., 5D217
 Khouri, L. G., 6D179
 Khramov, E. N., 1J45
 Khramov, V. A., 6D273
 Khrenova, D. Kh., 4E33
 Khudyakova, T. A., 5A21
 Khvorostukhina, N. A., 4B201
 Khvostova, V. P., 1B184
 Kiang, C.-L., 4D316
 Kibbe, A. H., 6E22
 Kibwage, I. O., 3E25
 Kidani, Y., 1D162, 2D305, 2E61
 Kido, A., 2C84, 3H90
 Kidwell, D. A., 2C15
 Kieboom, A. J., 5D193
 Kiechel, J. R., 2D91, 2D94
 Kiefer, B. A., 5F24
 Kierulff, P., 6D287
 Kijowski, W., 1H68
 Kikkert, J., 6B180
 Kikuchi, A., 3J41, 6B137
 Kikuchi, T., 6B187
 Kikui, F., 2B18
 Kikukawa, K., 3A15
 Kikuma, M., 3B100
 Kildsig, D. O., 1D98
 Killips, S. D., 6H50
 Kilroy, W. P., 6B124
 Kim, C., 3D119, 5D44
 Kim, C. Y., 1D142
 Kim, E. Kh., 6B144
 Kim, Hanh, 1D164
 Kim, Hyun Hee, 4D63
 Kim, J. B., 4D222
 Kim, J. S., 1D124
 Kimoto, M., 5C88
 Kimoto, T., 6H10
 Kimura, Akira, 1H48
 Kimura, Atsushi, 2D299
 Kimura, K., 1B31, 4B29, 6D24
 Kimura, L. H., 4D254
 Kimura, M., 6B55
 Kimura, S., 2D248
 Kimura, Tetsuo, 3J41, 6B137
 Kimura, Toshio, 2E37
 Kineiko, R. W., 4D10
 King, B., 2F63
 King, D., 1J144
 King, D. E., 5D205
 King, L. J., 4D74
 King, P. T., 1H59
 King, R., 4C14, 5C19
 Kinne, R., 3D314
 Kinney, J. B., 2J129
 Kinniburgh, D. G., 5H48
 Kinoshita, H., 3D80
 Kinsella, B., 2H42
 Kinsella, J. E., 1D125
 Kirby, J. S., 4J124
 Kirby, K. W., 1D107, 5D85
 Kircher, C. C., 2B113
 Kircheva, M. S., 1B135
 Kirchmer, C. J., 3H40
 Kirchnaw, F., 2H67
 Kiriama, T., 4B111
 Kirk, D. N., 2D128
 Kirk, G., 3D24
 Kirk, H., 5J105
 Kirk, J. R., 6F8
 Kirk, K. L., 5D105
 Kirkbright, G. F., 1B95, 4J96, 5D18, 5J131, 6J97
 Kirkeby, S., 5D219
 Kirkland, J. J., 1J200, 2J25, 2J28
 Kirkland, J. P., 2B87
 Kirmse, R., 4B124
 Kirn, A., 5D161
 Kirsch, H., 6H17
 Kirsh, S. I., 2C72
 Kirstein, D., 1D229
 Kiryukhina, N. N., 3G32, 4G16
 Kiseleva, M. A., 6B118
 Kiseleva, N. I., 3G34
 Kish, P. P., 3B180, 5B103
 Kishi, T., 1D77
 Kishimoto, N., 6B62
 Kiso, Y., 2C124, 3J45, 5J73
 Kiss, K., 1J99
 Kissinger, P. T., 4D292
 Kisslak, G., 1A28
 Kistemaker, P. G., 1D7
 Kitada, Y., 5F35
 Kitadani, T., 2B55
 Kitagawa, K., 5B29
 Kitagawa, T., 3D66

- Kitahara, H., 1C46, 3C22, 6J27
 Kitamoto, K., 4F62
 Kitamura, H., 1H65
 Kitamura, K., 3E45
 Kitano, S., 2E46
 Kitazume, E., 4J87
 Kitchens, J. F., 5H88
 Kito, A., 4B106, 4B119
 Kittsteiner-Eberle, R., 3D288
 Kiwan, A. M., 1B17
 Kiyazaki, A., 1H48
 Kiyoshima, K., 2E22
 Kizane, G. K., 2B64
 Kizuka, P., 2D198
 Klaassen, C. D., 4D288
 Klaassen, E. J. M., 6B24
 Klaassen, R., 2D98
 Klaessens, J., 6A16
 Klassen, R., 5D29
 Klebovich, I., 4D125
 Kleiman, G. G., 1J147
 Klein, H., 2F36
 Klein, J., 1H16
 Klein, L. C., 2B171
 Klein, S. W., 3D68
 Kleinovskaya, M. A., 3C117
 Kleinstaub, B., 4G8
 Kleinwachter, V., 4D46
 Klemm, L. H., 5C44
 Kletanina, N. E., 6C25
 Klikova, J., 1B169, 2B149
 Klimeck, W., 6B143
 Klimes, J., 5E72, 5E4
 Kline, B. J., 3D89
 Klingler, B., 2D179
 Klingler, W., 6D8
 Klipper, R. W., 6D269
 Klir, L., 2B164
 Klisenko, M. A., 3G34
 Klitenick, M. A., 6D28
 Klocke, J. A., 2D185
 Klockow, D., 1H10
 Kloeppel, H., 6B50
 Kloer, H. U., 2D166
 Klok, J., 2C25
 Klopff, L. L., 6A21
 Klose, S., 5A17
 Klosterbuer, S. F., 3J128
 Klostermeyer, H., 1F12, 4F45
 Klotz, L., 2E67
 Klotz, U., 3D111
 Klug, D. D., 6J102
 Klun, J. A., 3C17
 Knabe, W., 3J108
 Knebel, M., 2D104
 Kneip, T. J., 4H16
 Knezevic, G., 3C102, 5F23
 Knie, J., 4B8
 Knie, U., 6D87
 Knight, C. H., 1B94
 Knight, J. A., 4D211
 Knight, T. J., 6J57
 Knighton, W. B., 4J73
 Kniseley, R. N., 4H27
 Knopp, D., 3G30
 Knott, J., 3C104
 Knox, J. H., 1J23, 4J29
 Knuckles, B. E., 1F16
 Knuutinen, J., 2C50, 3C44, 3C45
 Knyazev, D. A., 5C20
 Knyr, L. T., 2G10
 Kobari, T., 6D108
 Kobayashi, A., 3D152
 Kobayashi, H., 6G27
 Kobayashi, Kazunori, 2B144
 Kobayashi, Keiko, 2E65, 6D270
 Kobayashi, Kenji, 1B145
 Kobayashi, T., 5B189
 Kobayashi, Takeshi, 1B179
 Kobayashi, Tooru, 3D39
 Kobayashi, Y., 4B101
 Kobayashi, Yoshiaki, 4D15
 Kobayashi, Yoshitaka, 2B136
 Kobayashi, Yoshiyasu, 2D75
 Kobbe, K., 5D49
 Kobierska, E., 6J132
 Kobori, I., 1D110
 Koch, G., 2D208
 Koch, K., 2H27
 Koch, K. H., 2B145, 3B3, 6B151
 Koch, K. R., 4B204
 Koch, L., 2B80
 Koch, P., 5D180
 Koch, T., 2D259
 Kochanov, V. V., 4E53
 Kochetkova, T. M., 3C4, 6B29
 Kochubei, V. F., 6B88
 Kocjan, R., 6A19, 6B21
 Kocsi, E., 1J72
 Kodama, Y., 4H25, 5H36
 Koeb, L., 2D84
 Koegler, J. C., 2D74
 Koehler, I., 6J101
 Koehler, J., 1C18
 Koehler-Schmidt, H., 3F23
 Koenig, A., 5D168
 Koenig, H., 2C88
 Koenig, J., 3H22, 4H26
 Koenig, J. L., 4J95, 6C79
 Koenig, W. A., 4C4
 Koenitz, K. S., 1B163
 Koepfel, C., 2D64
 Koerner, U., 5H102
 Koestlin, H., 1J135, 2J126
 Kofanov, V. I., 3H92, 3H98
 Kofinov, P. N., 4C84
 Kohtyuk, V. A., 4J121, 6B190
 Kogan, L. A., 6C62
 Kogure, K., 5B111
 Koh, H., 3B147
 Kohda, Y., 6D72
 Kohet, T. O., 4E31
 Kohout, V., 2B67
 Koirtiyohann, S. R., 1J112, 2J118
 Koivuniemi, U., 6C75
 Koizumi, M., 1D210
 Kojder, J., 4B187
 Kojima, Ikuo, 2E22
 Kojima, Kohichi, 6D271
 Kojima, Masuo, 4B118
 Kojima, T., 5C9, 6B147, 6D101
 Kojima, Tsugio, 5J12
 Kojola, H., 2J123
 Kok, S. H., 4H57
 Kok, W. T., 3D211
 Koka, I., 5E13
 Kokina, T. A., 2B156
 Koksharov, A. M., 6B87
 Kokubun, N., 1D38
 Kolakowska, A., 5F38
 Kolarova, R., 2E7, 6E15
 Kolarovic, L., 2F40
 Kolb, I., 3D99
 Kolb, J., 4D13
 Kolbrecka, E., 3E28
 Koldashov, V. N., 4A27
 Kolesnik, M. I., 5H29
 Koleva, M., 1E44
 Kolins, M. D., 3D176
 Kollenbach, M., 2B106
 Koller, E., 4D321
 Koller, P. U., 2D23
 Kollig, H. P., 6H60
 Kolling, O. W., 3C2
 Kollman, T. M., 6J170
 Kolodnikov, V. V., 3B31
 Kolodnynska, M., 4B41
 Kolomiitsev, A. I., 6B193
 Kolotov, V. P., 5B8
 Kolpakova, N. A., 3B157
 Kol'tsov, A. A., 6B7
 Koltun, P. S., 4E84
 Kolysh, A. V., 2B166
 Komagata, H., 1C44
 Komarek, K., 6C21
 Komatsu, K., 4B106, 4B119
 Komatsu, S., 4D173
 Komatsu, Y., 2B37, 4B6
 Komives, T., 5G7
 Komiyama, Y., 1D147
 Komo-Suwelack, C., 3F19, 3F20
 Komova, V. I., 3J142
 Kompantseva, E. V., 6E42
 Kondo, A., 2B123, 2E61
 Kondo, H., 3D161
 Kondo, T., 5D216
 Kong, X., 2E33
 Konietzko, M., 2F27
 Konijn, A. M., 3D258
 Konishi, M., 4J134
 Konishi, Y., 4D68
 Konno, H., 4B178
 Kono, T., 6B147
 Kononenko, W., 1J184
 Kononova, O. A., 1J45
 Kononova, O., 5B37, 5H102
 Kononyuk, V. F., 1C47
 Kononov, G. S., 1H52
 Konstantinov, I. O., 6B123
 Konwar, L. N., 5H46
 Konyakhina, L. V., 1B138
 Koontz, D. A., 3D173
 Koopmans, R. J., 2C115, 4C80
 Koopmanschap, R. E., 1D191
 Kopa, A. E., 2E42, 6E56
 Kopaciewicz, W., 4D233
 Kopanica, M., 4C74
 Kopczynski, T., 4D45
 Kopeikin, V. A., 6J88
 Kopila, S., 6H54
 Kopinke, F. D., 4J9
 Kopytsya, N. I., 1B135
 Kopoldova, J., 2D229
 Kopp, B., 2E18
 Koppen, P. L., 6D150
 Koppenhoefer, B., 4C18
 Koprd, V., 6F35
 Koprio, J. A., 2J138
 Kopycki, W., 1J1
 Kopytin, A. V., 3J137, 3J139, 6J141
 Korablina, N. V., 1B99
 Korany, M., 6E19
 Korany, M. A., 4E56
 Korbl, J., 2E24
 Kordas, J. F., 4J124
 Koren, M., 3B161
 Korenev, A. P., 1H52
 Korenman, I. M., 4J131, 5C7
 Korenman, Ya. I., 3H76
 Korf, J., 5D134
 Korfmacher, W. A., 1C64, 2H5, 6J71
 Korhonen, I. O. O., 2C30, 2C31, 2C35, 2C48, 2C50, 3C44, 3C45, 3C50
 Koricanac, Z., 1E74, 4D126
 Korikanac, Z., 1D101
 Koritnyuk, R. S., 5E47
 Korkisch, J., 1B92
 Kormos, D. W., 4J97
 Korol, A. N., 5C2
 Korol, S., 6H64
 Korol, W., 6G16
 Koroleva, M. Ya., 6B48, 6E21
 Korpela, J. T., 1D134
 Korpi, E. R., 4D99
 Korte, E., 3J30
 Korte, F., 5H3
 Korte, K., 2D151
 Korte, N., 2B106
 Korteling, R. G., 2H51
 Kortus, M., 1E50
 Koruna, J., 6E53
 Koryta, J., 4E25, 5E23
 Korytnyk, W., 5D211
 Kos, C. H., 1B197
 Kosaka, A., 3D75
 Kosaka, K., 3D125
 Kosaka, Michio, 4F16
 Kosaka, Momoko, 4F16
 Kosce, Z., 6J64
 Koscielski, T., 5C31
 Koski, M., 2D299
 Kosenko, I. P., 5E46
 Koshima, H., 1B66, 6B43
 Koshioka, M., 3G27
 Koshiyak, T. N., 2B169
 Koshy, K. T., 1D245
 Kosinski, M. A., 2J120, 4J90, 5J132
 Koss, F. W., 4D48
 Koss, R. F., 5D67
 Kossman, K. T., 3D27
 Kosta, L., 2D40
 Kostadinov, K., 3B115
 Kostadinova, P., 4G19
 Kostalas, H., 1H17
 Kostanski, M., 3B149
 Kostas, A. V., 3H18
 Kostenko, V. G., 5C14
 Kostner, G., 4D267
 Kostner, G. M., 3D262
 Kostrikina, Yu. M., 6B87
 Kostromin, A. I., 1A20, 3B17
 Kostylev, V. S., 5B72, 5B163
 Kostyniak, P. J., 3D40
 Kostyrkina, T. D., 1B178
 Kostyshina, A. P., 4B63
 Kosyakov, V. N., 3B84, 3B86
 Koszowski, J., 6F17
 Kotaki, H., 4D116
 Kotek, J., 5H98
 Kotik, A. F., 6C64
 Kotov, A. V., 6E21
 Kotsuji, K., 1B22
 Kountourellis, J., 4E27
 Kourilova, D., 1J52, 4J44
 Kovacheva, E., 2F41
 Kovacik, V., 6E45
 Kovacicova, M., 2E47
 Kovacs, P., 3E63
 Koval, M., 3H25
 Koval'chuk, T. V., 4E31
 Kovalenko, N. L., 4B202
 Kovalenko, V. A., 6D168
 Kovalev, I. D., 4J103
 Kovaleva, S. V., 1B108
 Kovar, K. A., 3E47
 Kovar, P., 2H84
 Kovarskii, V. Ya., 6B90
 Kovatscheva, E., 3E67
 Kovrizhnikh, V. A., 6D256
 Kovtun, E. D., 1B114
 Kowalczyk, J. S., 5J29
 Kowalewski, Z., 1E50
 Kowalski, B. R., 2J176, 4A25, 4J108
 Kowalski, S., 6B172
 Kowalsky, R. J., 1E75
 Koyama, H., 2F61
 Koyama, S., 5D124
 Kozai, S., 1D117
 Kozaka, M., 1D256
 Kozarac, Z., 5C68
 Kozhanova, L. A., 2B180
 Kozhevnikov, L. A., 4B55
 Kozhushkova, L. I., 6C40
 Kozicka, U., 2B20
 Koziorova, T. N., 3C106
 Kozlov, N. E., 1C35
 Kozlov, Yu. N., 5E23
 Kozma, M., 4D114
 Kozma, T., 1C118
 Kozyreva, A. O., 4E84
 Kraak, J. C., 6J23
 Kraak, P., 6B191
 Kraayenhof, R., 1J96
 Krachanova, M., 2F41
 Krackowska, A., 3E53
 Kraemer, D. L., 6D170
 Kraemer, K. L., 1D168
 Krag, E., 1D148
 Kral, K., 3F46
 Kralovsky, J., 1C31
 Kramar, O., 2H85
 Kramarenko, V. P., 4E46
 Kraml, M., 3D87
 Krammer, G., 1H28, 6H11
 Kraner, H. W., 5J145
 Krantz, S., 6D144
 Krasiejko, M., 4B137
 Krasil'shchik, V. Z., 1J122, 2J108
 Kraslawski, A., 1C56
 Krasnikov, A. S., 2B172
 Krasnoperov, V. M., 5B166
 Krasnov, N. N., 6B123
 Krasnova, S. G., 6B190
 Krasnykh, A. A., 6G32
 Krasov, V. I., 5J6
 Krasovskii, V. A., 4J129
 Kratochvil, B., 3J1, 4A14
 Kraus, G., 3C51, 5C83
 Krause, R. T., 1G24
 Krauss, C., 1H80, 2D104

- Kravchenko, M. S., 3A4
 Kream, J., 6D68
 Kreamer, B. L., 3J10
 Kremer, F., 6G1
 Kreingold, S. U., 1C9, 2C41, 3B91
 Kreis, W., 3D67
 Kreishman, G. P., 1J107
 Kreisinger, F., 6A24
 Krejci, M., 4J44
 Krempler, F., 4D267
 Kretovics, J., 1E49
 Kretschmer, M., 3B3, 3B141, 6B151
 Kreuzer, W., 5H5
 Kreuzig, F., 6E24
 Kricka, L. J., 2D188, 4D1, 4D14
 Krieger, R., 1D217
 Kring, E. V., 2H29
 Kringe, K. P., 6D198
 Krishchenko, V. P., 1F17
 Krishnamurthy, S., 2D259
 Krishnamurti, N., 4C86
 Krishna Murty, N., 3B104
 Krishnan, G., 6D234
 Krishnan, V. R., 2B60, 2B152, 5B73
 Kristof, J., 1B190
 Kristoff, J., 5H22
 Kritikou, L. G., 2D164
 Krivan, V., 3D20, 3G19, 4B147
 Krivda, G. L., 1H35
 Krivit, W., 6D165
 Krivoruchko, B. I., 1D236
 Krivovichev, V. G., 1B157
 Kroll, J., 4F70
 Kronbach, T., 1D78
 Kroneis, H., 2A14
 Kronick, M. N., 1C40, 6C4
 Kronikovskii, O. I., 1B42
 Kroonen, J., 5J120
 Kropfenstedt, R. M., 1D246
 Krouse, H. R., 3B112
 Krstulovic, A., 1J36, 5J46
 Krstulovic, A. M., 1D154, 2J26, 4J35, 4J36, 4J43
 Krtil, J., 2B78
 Kruchina-Bogdanov, I. V., 2D216
 Krueger, F. R., 3J108
 Krueger, H. W., 2F2
 Krueger, K., 3D99
 Krueger, R. P., 1C116
 Krug, F. J., 1J130, 5J15
 Krukovskaya, E. L., 4B59, 4B131
 Krull, I. S., 4C14, 4D119, 5C19, 5C24
 Krull, U. J., 5J14
 Krunz, M. M., 6B138
 Krupcik, J., 1J80, 1J81, 2C45
 Kruppa, G. H., 1J171, 1J172
 Kruse, T. H., 1B49
 Kruskopf, J., 5E33
 Kruyt, W., 2J49
 Krylov, V. A., 3B95
 Krysin, L. S., 1B184, 3G8
 Kryuchkov, V. M., 1J122
 Krzek, J., 1E3, 3E80
 Krzywicki, K., 1F22
 Ku, J. C., 3H31
 Ku, T. L., 2H51
 Kuan, S. S., 5G21
 Kuang, J., 6C39
 Kuban, V., 1B58, 4C72
 Kubasik, N. P., 2D38
 Kubeckza, K. H., 4C92B
 Kubelka, W., 2E18
 Kubena, L. F., 5F36
 Kubicek, M. F., 4D103
 Kublik, Z., 5B62
 Kubo, I., 2D185
 Kubo, O., 6D113
 Kubo, T., 3D57
 Kubonova, M., 1B164
 Kubota, T., 1D92
 Kucan, E., 1J65
 Kucera, J., 2D40, 3D52
 Kucera, P., 1J56
 Kucharkowski, R., 3B50, 4B53
 Kucharski, S., 1E10, 2E66
 Kuchinskaya, O. I., 5B56, 5B107
 Kuchnicki, T. C., 5D15
 Kuckertz, T. H., 4B104
 Kudashev, A. V., 6G17
 Kudermann, G., 3B87
 Kudina, V. K., 4B199
 Kudo, K., 1B145, 6B139
 Kudo, M., 6J111
 Kudoh, M., 5C22, 5C67
 Kudryavtsev, G. V., 3B131
 Kuederli, F. K., 3J57
 Kuelpmann, W. R., 4D85, 5D33
 Kuenne, H. J., 5C8
 Kuessner, A., 1J6
 Kuester, B., 6C76
 Kuftinec, J., 1E58, 6E51, 6E55
 Kuga, K., 4B60
 Kuge, Y., 1H65
 Kuhnert-Brandstatter, M., 3E7 3E8
 Kuhn O. S., 4D84
 Kuhn, W., 3D63
 Kuipers, A. T. J. M., 1J55, 4C13
 Kujawa, R., 2H11
 Kujirai, O., 1B179
 Kukarina, L. V., 2B64
 Kukasawa, T., 5B112
 Kukolev, V. P., 3C35
 Kuksis, A., 4D163
 Kulawinek, J. M., 1C56
 Kulcsar, F., 1F40, 3D247
 Kulikov, A. A., 2C77
 Kulikov, V. D., 6B7
 Kulikov, V. I., 5C48
 Kulikova, N. P., 2H12
 Kulikovskaya, Zh. B., 4B70
 Kulis, J., 6J149, 6J151
 Kulish, N. G., 2B35
 Kulkarni, A. G., 1B65
 Kulkarni, M. J., 5B87
 Kumagai, A., 4D161
 Kumami, K., 6D24
 Kumamoto, J., 5C15
 Kumar, A., 1B183, 3B9, 4B132, 4B138, 4B189
 Kumar, A. A., 3E69
 Kumar, C., 1J108
 Kumar, J., 5B131
 Kumar, S., 4B197, 6B108
 Kumari, K., 2C27, 6J47
 Kumari, V., 1B20
 Kumina, D. M., 3B30
 Kummer, A., 3G25
 Kumpel, B. M., 3D295
 Kumps, A. H., 3D76
 Kumuzaki, I., 2F61
 Kuna, R. P., 3F11
 Kunihiro, F., 3J125
 Kunin, L. L., 1B128
 Kuntz, R. L., 6H23
 Kunugi, Y., 3D136
 Kunz, J., 5B186
 Kunze, R., 4B200
 Kuo, C.-Y., 4C85
 Kupalova, I. K., 1B158
 Kupfer, W., 6F18
 Kuprash, L. P., 5E47
 Kurata, T., 1F8
 Kurbatov, D. I., 2B132
 Kurfuerst, U., 2B4, 2J98, 6J91
 Kurganov, A. A., 1D173, 5D135
 Kurinara, S., 4J134
 Kuriyama, K., 4D221
 Kurobe, T., 6J12
 Kurochkin, V. D., 1J123
 Kuroda, N., 3D203, 6D285
 Kuroda, R., 4B111
 Kuroguchi, S., 1D110
 Kuroishi, T., 2D250
 Kuroiwa, Y., 3D80
 Kurokawa, Y., 2J164
 Kurosaki, H., 1D209
 Kurosawa, S., 1B204
 Kurstak, E., 3D238
 Kurth, G., 2H94
 Kurtz, D. A., 6J39
 Kusaka, Y., 1H49
 Kusakabe, M., 2H51
 Kusch, P., 6C77
 Kusel'man, I. I., 5B1
 Kushelevsky, A., 3H13
 Kushi, Y., 3D179
 Kushida, K., 5D26
 Kushner, J. P., 5D228
 Kuster, T., 3D10
 Kuster, W. C., 6H13
 Kusz, P., 1C21
 Kutob, M., 2D223
 Kutsovskaya, V. V., 4J131
 Kuttat, S. H., 6D54
 Kutter, R., 1F25
 Kutzki, R., 1F13
 Kuwada, M., 5D141
 Kuwahira, H., 6F12
 Kuwamoto, T., 6B19
 Kwata, K., 2C124
 Kuwayama, M., 2D90
 Kuye, J. O., 3D118
 Kuzema, A. S., 6J75
 Kuzmicky, D. D., 1F16
 Kuz'min, N. M., 4J121
 Kuznetsov, V. V., 1B133, 2C90 5B161
 Kuznetsova, L. M., 1J21
 Kuznetsova, R. A., 3J156
 Kuzovkov, A. D., 4E26
 Kuzunishi, T., 1H45
 Kuzuya, N., 3D125
 Kuzyakov, Yu. Ya., 3B43, 4B33
 Kvalheim, O. M., 6F33
 Kvasha, N. M., 1C48
 Kvasnitskii, I. B., 3B71
 Kwan, J. T., 3C89
 Kwolek, W. F., 4F67, 5G19
 Kwong, E. M. L., 4D318
 Kyogoku, K., 2D102
 Kyriakidis, N. B., 5F71
 Kyrs, M., 5B89, 6B9
 Kyte, B., 2J81
 Laakso, J. T., 3H38
 Labarre, P., 3D104
 Labbe, R. F., 3D267
 Labetskaya, N. P., 1J191, 2J169
 Labohm, F., 4J100
 Labory, P., 6F53
 Labrecque, J. J., 3B174, 6B18
 Lacave, C., 1D139, 2D171
 Lachatre, G., 1J38, 4D64
 Lacroix, A., 3D280, 4D294
 Lacroix, G., 6C29
 Ladish, M. R., 4G10
 Ladna, L. Ya., 2E13
 Ladnaya, L. Ya., 1D53
 Ladygin, B. Ya., 3C43
 Laeven, J. M., 6J23
 Laffort, P., 1J82
 Lafleur, A. L., 5C55
 Laga, A., 3B43
 Lagarde, G., 2B3
 Lagerstroem, P. O., 4D100
 Lahmy, S., 1F39
 Lai, C.-M., 1C27
 Lai, J. W., 6D102
 Lai, S.-T., 1C112
 Laing, D. K., 5C89
 Laipanov, A. Kh., 4E74
 Laird, W. M., 2F22
 Lake, D., 4D197
 Lake, O. A., 1E2, 2E1
 Iakomova, N. A., 5C41
 Lal, K., 2B163
 Lal, N., 5F45
 Lalka, D., 1D100
 Lalla, M., 2D287
 Lalonde, C. R., 1B77
 Lam, R. B., 6A27
 LaMarre, J., 6G11
 Lambardi, F., 5D54
 Lambe, R. F., 6D106
 Lambert, A., 5D159
 Lambert, A. E., 6D223
 Lambert, M. A., 3D159
 Lambert, W. E., 2D273
 Lambrev, V. G., 4J121
 Lamiabie, D., 3D131
 Lamine, L., 6D115
 Lamothe, P. J., 1J129
 Lamour, M., 1C98
 Lamparski, L. L., 1H38, 1H40
 Lampe, D., 4D61
 Lampert, R. A., 1J105
 Lamplugh, S. M., 5D88
 Lanzas, F. M., 4B141
 Lancaster, C. M., 6D269
 Landeau, B., 3J102
 Landi, S., 4D19
 Landis, D. A., 5J146
 Lando, J. B., 4J95
 Landolt, R. G., 1H73
 Landolt, R. R., 6E5
 Landon, J., 6D63
 Landre, J., 3H71, 4H65
 Landsberger, S., 6B186
 Landy, J. S., 2J20, 6J30
 Lane, A. T., 1D197
 Lang, J. F., 3D115
 Lange, C., 2D91
 Lange, J., 6B94
 Lange, P. K., 6J21
 Lange, R., 2D54
 Langenbach, M., 4D132
 Langenbeck, U., 2D146
 Langer, P., 3D217
 Langford, B., 5J22
 Langmaier, J., 6J133
 Langroo, M. K., 5J143
 Lankenau, R. O., 5H41
 Lankmayr, E. P., 3J29, 6J38
 Lanning, S. M., 6J169
 Lanouette, M., 5G28
 Lansdell, A. W., 2D42
 Lant, M. S., 1J51, 3J26, 3J28, 5H47
 Lantsov, V. V., 6J78
 Lantto, O., 6D216
 Lanza, P., 2B91
 Lanzani, A., 4F4
 Laois, I., 5J105
 Lapitskaya, S. K., 2D39
 La Porta, E., 6E7
 Lapteva, A. S., 3C7
 Laqua, K., 3J81
 Largiadier, U., 5D102
 Larrin, N. V., 6B127
 Larkin, E. C., 2D154
 Larkins, P. L., 5J111
 Larmann, J. P., 1C111
 Larsen, C., 6E27
 Larsen, E., 2B79
 Larsen, I. L., 3H56
 Larsen, K., 1D271
 Larson, J. R., 4C21, 5C23
 Larson, P., 3E6
 Larsson, A., 4D285, 6D216
 Larsson, B. K., 5F14
 Larsson, L., 1D119
 Larsson, M., 4H94, 6D91
 Larusso, N. F., 1D148
 Lascelles, P. T., 4D98
 Laser, B., 2C12
 Laserna, J. J., 4B18, 4H9, 6H40
 Lasher, R. S., 3D222
 Laski, R. R., 5C93
 Lasne, Y., 6D226
 Laszlo, A., 3J152
 Laszity, R., 5G10
 Latariya, A. A., 3B92
 Latchman, D. S., 5D170
 Later, R., 2D242
 Latour, J. F., 3J17
 Latven, R. K., 4H11
 Lau, C. M., 2G3, 3J74
 Lau, E. C., 4D145
 Lau, P. Y., 2D121
 Lauer, B. A., 2D22
 Lauff, J. J., 6D254
 Lauko, A., 6E3
 Laupacis, A., 2D74
 Laurent, C., 6J25
 Laurenzi, A., 3C68
 Lauren, C. F., 6D132
 Laurinavicius, V., 6J151
 Lauriol, J. M., 2J39
 Lautenberger, W. J., 2H29
 Lautensleger, A. W., 6B78

- Lauwerys, R., 1D203
 Lavale, S. C., 1B84, 2B68, 5B77
 Lavene, D., 2D91, 2D94
 Lavi, N., 4D42, 4J120
 Lavinyukova, N. I., 6E61
 Lavrelashvili, L. V., 1C9
 Lavrova, M. F., 4E28
 Law, B., 6D100
 Law, D. M., 1D165
 Lawlor, J., 2D295
 Lawrence, A. H., 1E60
 Lawrence, D. M., 2J95
 Lawrence, J. F., 2G22B, 6C29
 Lawrence, R. S., 2B81, 2J160
 Lawson, A. M., 2D128
 Lawson, K., 4J65
 Lawson, S. R., 6J87
 Laver, P., 4D27
 Lazarev, A. I., 1B24, 2B161
 Lazareva, G. A., 1B36
 Lazareva, V. I., 2B161
 Lazrus, A. L., 5H20
 Le, V., 2H11
 Lea, R. E., 4J75
 Leaback, D. H., 4D309
 Leach, V. A., 5J10
 Leahy, D. T., 5D176
 Learner, R. C. M., 2J97
 Leary, J. A., 5C55
 Lebed, V. I., 3J63
 Lebedeva, L. I., 3B125, 5B134
 Lebedeva, N. A., 3C30
 LeBel, G. L., 6D143
 Le Berre, A., 1J49
 Le Botian, D. J., 3C28
 Lecacheux, D., 1J58, 2C112, 2J38
 Lecaillon, J. B., 1D80
 Lecarpentier, C., 4D132
 Leccon, L., 1F32
 Lechene, C., 1D45, 3D308
 Lechner, H., 4C79
 Lechtenberg, V. L., 4G10
 Leck, J. H., 1J162
 Leckie, M. P., 1D52
 Leclerc, M., 3J98
 Lecossier, D., 1D275
 Lederkremer, G. Z., 6D182
 Ledl, F., 5F8
 Ledley, R. S., 3J44, 6J49
 Ledovskikh, N. G., 5H40
 Le Duigou, Y., 2C3
 Lee, A., 5D78
 Lee, C., 5J136
 Lee, C.-L., 6D280
 Lee, C. R., 1D69
 Lee, C. Y., 6F22
 Lee, D., 3B85
 Lee, G. F., 2H37
 Lee, H.-B., 5H92
 Lee, J., 1C3
 Lee, K., 4F35
 Lee, K.-S., 4C73
 Lee, K. N., 3F24
 Lee, L.-C., 4E87
 Lee, L. P. K., 2D264
 Lee, L. S., 5G11
 Lee, M. L., 3J35, 5C82
 Lee, R. E., jun., 5C17, 5F26
 Lee, R. M., 5D69
 Lee, T., 2D30
 Lee, Teresa, 1C28
 Lee, T. D., 2C20
 Lee, T. L., 5D64
 Lee, W. J., 1F48
 Lee, Y. W., 1G39
 Leenheer, J. A., 3H78
 Leesch, J. G., 2G20
 Leever, W., 5D134
 Lefebvre, M. A., 5D66
 Legedz, E., 3C97
 Legerloef, F., 3D30
 Legge, R. L., 3G27
 Leggett, D. J., 5H81
 Legrand, G., 3C56
 LeGrand, R., 5D143
 Legret, M., 3H44
 Le Henaff, Y., 6D176
 Le Hir, A., 3D116
 Lehman, J., 3D151
 Lehmann, R., 6B102
 Lehmann, R. G., 5H94
 Lehmann, W. D., 1D132, 2D155
 Lehtola, T., 4E12
 Lehtonen, M., 1F52
 Lei, W., 3H52, 5H67
 Leijten, J. F., 6D1
 Leika, Z. A., 4H30
 Leinert, J., 4D299
 Leipold, M., 1C79
 Leis, F., 5B66
 Leist, Y., 1D16
 Leith, H. M., 2D173
 Leith, I. S., 5B105
 Leive, L. L., 5J24
 Leksins, A. N., 3C55
 Lelion, L., 2C60
 Leloir, J., 5D57
 Lemly, A. D., 4D38
 Lemming, J. F., 6B79
 Lemmo, N. V., 3H61
 Le Moan, G., 6E41
 Le Moing, J. P., 6D93
 Lemonnier, A., 1D260, 1D274
 Lemonnier, F., 1D260
 Lemort, N., 1D193
 Lenarcic, S., 1J65
 Lenk, H., 2J153
 Lennard, L., 1D95
 Lennard, M. S., 3D102
 Lenz, D. E., 4C91
 Lenz, F., 3F39
 Leonard, J., 5D71
 Leone, B. A., 4B152
 Leong, D. K., 4C59
 Leong, G. H., 5D84
 Leong, K. H., 3J159
 Leonhardt, B. A., 3C17
 Leonova, A. A., 6C40
 Lepadatou, C. I., 5H91
 Lepargneur, J. P., 4D56
 Lepel, E. A., 5B194
 Lephardt, J. O., 4J8
 Leppanen, O., 1F49
 Leppert, B. C., 3G42
 Lepri, L., 5D129
 Le Quan Bui, 1D164
 Lercari, C., 4C65
 Lerique, D., 3G2
 Leriquier, Y., 5H17
 Lerman, Z. A., 5C41
 Lerner, H., 2D113
 Leroux, F., 3D101
 Leroux, M., 5F21
 Leroy, F., 1J189
 Lesec, J., 1J58, 2C112, 2J37, 2J38
 Lesgards, G., 4B52
 Lesniak, K., 3C63
 Lessard, L., 1B202
 Lester, E., 4D185
 Lester, J. N., 2H109
 Letokhov, V. S., 1B109
 Letolle, R., 1H14
 Letot, L., 2J37
 Letunova, A. B., 3C96
 Letutour, B., 4F75
 Leu, D., 2H11
 Leung, F. Y., 3D62
 Levacq, M., 6F69
 Levade, T., 5D218
 Le Van So, 5B48
 Levchenko, Yu. N., 6B85
 Levert, J. M., 1B73
 Levey, R. H., 4D54
 Levin, J. O., 3H28
 Levin, S. S., 2D156
 Levine, B., 6D98
 Levine, E. M., 2D57
 Levine, S. P., 3C84, 4H70
 Levitt, M., 4D314
 Levitt, M. J., 6D104
 Levens, K., 3C92, 3H80, 4H84
 Levy, E. J., 2J56
 Levy, F., 6J174
 Levy, G. C., 4J98
 Levy, R., 3D258
 Lewandowska, M., 3D284
 Lewandowski, W., 1B83
 Lewin, J. F., 3D18
 Lewis, A. L., II, 6J100
 Lewis, E., 2H85
 Lewis, J. Y., 4B157
 Lewis, K., 5B91
 Lewis, L. C., 2J103
 Lewis, P. A., 3D106
 Lewis, R. A., 6D172
 Lewis, R. G., 1D111
 Lewis, R. L., jun., 2E68
 Lewis, R. W., 4G13
 Lexa, J., 4J127
 Leyden, D. E., 4H40, 4H41
 Leyland-Jones, B., 3D67
 L'Heureux, L., 2F4
 Li, Chaohui, 5B21
 Li, Chongfu, 1B121
 Li, Chunfang, 2B72
 Li, C.-X., 4D228
 Li, Decheng, 3H66
 Li, Donghong, 4E59
 Li, Duanlin, 4B77
 Li, F., 6B128
 Li, G., 2B92
 Li, H., 6J130
 Li, Jingzi, 6J152
 Li, Jinhe, 4B50
 Li, Junyi, 4B61
 Li, J. Z., 6J29
 Li, N., 5B81
 Li, P., 3C111
 Li, S., 4B75
 Li, T. M., 2D5, 4D88
 Li, W., 3E38
 Li, Xinmin, 5B42
 Li, Xiulan, 6C22
 Li, Xiulu, 4E59
 Li, Y., 3H46
 Li, Zhenjia, 2D221
 Li, Zhihao, 6J152
 Li, Zhu, 6J130
 Liang, D., 2B92
 Liang, H., 3A10
 Liang, Z., 4B75
 Liao, W., 5B45
 Liao, K. Y., 3D212
 Liber, H. L., 5C55
 Liberato, D. J., 2D68, 3D151
 Libergott, E. K., 2B42
 Liberman, V. V., 2H14
 Libert, J. M., 4D59
 Licht, C. F., 1D105
 Lichte, F. E., 1B122
 Lichtenthaler, R. G., 5H85
 Lichtman, D., 4H5
 Lieber, C. S., 5D164
 Liebezeit, G., 1H72
 Liebich, H. M., 4D147
 Liebl, M., 2F51
 Liebman, S. A., 2J56
 Liem, D. H., 1C95
 Lien, L.-F., 5D208
 Liese, T., 3D41
 Lieser, K. H., 1F4, 3J40, 4H53
 Liewendahl, K., 6D217
 Lifanov, Yu. G., 6C28
 Likforman, J., 3C93
 Likhonina, E. A., 2B71
 Lim, C. K., 1E51, 2D261, 5D65, 5D234
 Lim, H. H., 4D223
 Lin, C., 4D63
 Lin, E. T., 5D38
 Lin, H.-B., 5J9
 Lin, Jianpu, 5B51
 Lin, Junmi, 6B70
 Lin, J. K., 3D212
 Lin, J. T., 3D314
 Lin, M., 4B75
 Lin, M. F., 6D280
 Lin, S., 3F4
 Lin, T., 2H55
 Lin, W., 2D225
 Lin, X.-Q., 1J195, 1J196
 Lin, Yao, 4D228
 Lin, Yuxing, 1J192
 Lin, Z., 3B63
 Linard, A., 2F17
 Lindahl, R., 3H28
 Lindsay, L., 2D67
 Lindberg, W., 4H83, 6A17
 Lindblom, H., 4D234
 Linde, S., 2E38
 Lindemann, J., 4D326
 Linden, D., 3E47
 Linden, G., 1F28
 Lindfors, A., 6D64
 Lindgren, J. A., 5D108, 6D173
 Lindgren, M., 1B134
 Lindquist, S. G., 6G19
 Lindqvist, L., 3D30
 Lindsey, A. S., 5C56
 Lines, R. W., 4J145
 Ling, J., 4B142
 Ling, T. G. I., 1D202
 Link, G., 3D258
 Linnett, P., 5C40
 Linnoila, M., 4D99, 4D192, 5D105
 Linow, F., 2D54
 Linsalata, P., 5H65
 Linton, R. W., 4B13, 4B109
 Linz, U., 4D282
 Lioy, P. J., 4H16
 Lipari, F., 3H30
 Lipavska, H., 2E62
 Lipavskii, V. N., 1J73, 5J18
 Lipczynska-Kochany, E., 5C46
 Lipowski, J., 2C51
 Lippard, S. J., 5A1
 Lippens, M., 6E25
 Lippmann, C., 6D198
 Lippmann, H., 5C80
 Lipscomb, J. D., 6J110
 Lipunova, G. N., 4B19
 Lipus, V., 1J104
 Lisenkov, V. F., 6C62
 Lisichkin, G. V., 3B131
 Lisovskii, I. P., 3C73
 Liteanu, C., 3C47
 Litjens, J. L. M., 2D98
 Litmanen, R., 5G34
 Little, B., 4H67
 Little, C. J., 1D50, 1H78
 Little, J. N., 5J2
 Littlejohn, D., 1D41, 2J110, 4J85
 Litwinczuk, R. A., 4D303
 Liu, B., 1J199
 Liu, Changsong, 5B42
 Liu, Chengye, 6E47
 Liu, Chunlan, 6B13
 Liu, C. C., 4D141
 Liu, Chang C., 2D115
 Liu, G., 3H63, 4H60, 4H61
 Liu, G. H., 2J55
 Liu, Hanxun, 1J67
 Liu, J., 6J85
 Liu, K., 1B63
 Liu, L. M., 4B213
 Liu, M., 4J12
 Liu, P., 4H59, 5H66
 Liu, Qingcai, 4B177
 Liu, Qizhong, 1D35
 Liu, T. Z., 3D83
 Liu, X., 6B116
 Liu, Yaohan, 5B136
 Liu, Yaping, 1H64
 Liu, Y.-F., 3B85
 Liu, Ying, 3E75
 Liu, Yongming, 2H55
 Liu, Yuanshu, 6F71
 Liu, Z., 6J152
 Liu, Z. G., 3G7
 Liuta, M. L., 2E4
 Livingston, D. J., 5J106
 Lizana, J., 4D241
 Llewellyn, G. C., 3G4
 Llewellyn-Smith, I. J., 1D181
 Llisto, A. M. S. M., 4F22
 Lloyd, J. B. F., 3C120, 3J23, 5C90
 Lo, C. C., 2H18
 Lo, D. H., 2D258
 Lo, J. M., 2H45, 4B140
 Lobaugh, B., 4D312
 Lo Bello, M., 3D291
 Lober, M., 6D144
 Locatelli, C., 4D19, 4H74

- L'oeche, L., 1G15
 Lochmueller, C. H., 2J19
 Lochtman, J., 6H53
 Locke, D. C., 1C112
 Lockley, W. J. S., 2D101
 Lockwood, A. F., 2C66
 Lockwood, F. E., 6C58
 Lodkowski, R., 1J33, 4J26
 Lodziak, J., 2B92
 Lodzinska, A., 4A12
 Loeschner, W., 6D75
 Loewus, F. A., 4D304
 Lof, C., 3D200
 Logachev, V. F., 6G32
 Logan, J. E., 2D46
 Logchies, R. G., 2J12
 Loginov, A. V., 6B190
 Loginova, N. K., 3J156
 Loh, W., 4D55
 Lohar, D., 5E18
 Lohmann, U., 1E28, 6C23
 Lohninger, H., 3A28
 Lohse, H., 6J125
 Lokka, E., 6C75
 Lomako, V. L., 1B67
 Lombardi, C., 3H18
 Lombardi, C. C., 1H6
 Lomdahl, G. S., 4B165, 5J107
 Lomozik, L., 4B80
 Long, D. E., 4F57
 Long, G., 6D74
 Long, G. L., 6A12
 Long, H., 4C25
 Long, S. E., 1E14
 Long, T. M., 1D4, 1D5
 Longhi, P., 1J186
 Longhurst, T. H., 1B94
 Longstaff, C., 1C54
 Longuemard, N., 4G9
 Lonnen, W. A., 6H23
 Lonnerdal, B., 3D48
 Lonngren, J., 6D150
 Loo, T. L., 3D123
 Lopez, A., 4F63
 Lopez, C., 5D161
 Lopez, J., 5F15, 5F16, 5F17
 Lopez, S., 2J178
 Lopez-Avila, V., 6A23
 Lopez de Haddad, M. P., 4C41, 4C67
 Lopez-Fernandez, J. M., 1B26, 2B27
 Lopez Garcia, I., 1B112
 Lopez-Gonzalez, J. de D., 6J74
 Lopez-Rivadulla, M., 1D46
 Lord, C. J., III, 1B196
 Lordello, A. R., 4D16
 Lore, F., 3D282, 3D283
 Loree, T. R., 2B36
 Lorentz, K., 1D28, 3D302
 Lorimer, G. W., 1B8
 Los, J., 3H26, 6H21
 Loscombe, C. R., 2J17
 Losev, V. N., 4H43
 Losolmaa, Zh., 5B55
 Losonczy, J., 3B105
 Loth, P., 2H91
 Lott, P. F., 2J78
 Lotter, L., 5G25
 Lotti, M., 6D141
 Lou, F., 2B133
 Lou, Y., 1E26
 Louboutin, R., 4H33
 Louris, J. N., 5C44
 Loutfy, M. A., 6E9
 Louvrier, J. L., 3C56
 Love, G., 2J90
 Lovell, M. W., 5A20
 Lovering, A., 5E24
 Lovett, A. M., 4D9
 Lovett, J. F., 3G41
 Lovgren, T. N. E., 1D262, 2D255, 3D275
 Low, G. K. C., 2E17, 2E49, 5E10
 Lowie, D. M., jun., 5G23
 Lowry, O. H., 3D276
 Lowry, R. R., 4D155
 Lowther, C. J., 1C73
 Loyaux, D., 3C78
 Lu, A., 4B77
 Lu, F., 5G2
 Lu, H., 4B58
 Lu, P., 6D211
 Lu, P. C., 6J29
 Lu, Q., 2B90
 Lu, Y., 5H19
 Lu, Y.-J., 4D228
 Lubecki, A., 6B183
 Lubert, K. H., 1B93, 6B33
 Lubman, D. M., 1C40, 6C4
 Luca, C., 4D308
 Lucas, B. E., 4F6
 Luck, J., 1B192, 1B193
 Luckas, B., 4F36
 Luderer, J. R., 5D106
 Ludvigsen, N., 4D151
 Ludwig, E., 5F10
 Ludwig-Koehn, H., 2D146
 Luedi, G., 1D270
 Luethe, J., 1J86
 Lugari, M. T., 4D179, 5B156
 Luisi, G., 4E43
 Lukacs, G., 1E49
 Lukanova, R., 1B104
 Lukasewski, Z., 2B13
 Luke, M. A., 2G13
 Luke, P. N., 2B95, 2B96
 Lukkari, E., 2D287
 Lukyanova, L. P., 5H100
 Luk'yanchikova, G. I., 1E1, 4E54
 Luk'yanov, V. I., 1B111
 Lun, S., 2D183
 Lund, P., 4F51
 Lund, U., 5J37
 Lundanes, E., 5J31
 Lundback, H., 1B39
 Lundgren, T. I., 2D85
 Lundin, H., 1J57, 4J37
 Lundman, A., 2D32, 3F48, 3F49
 Lundquist, T. R., 3J107
 Lundqvist, P., 2D53
 Lundstrom, K., 2D24, 2J182
 Lunte, C. E., 4D292
 Luo, C., 3B85
 Luo, H., 6B68
 Luo, Q., 4B76
 Luo, X., 4A9
 Luo, Z., 5B35
 Lupianez, J. A., 1D163
 Lupien, M., 3H43
 Lupp, R., 3D63
 Luque de Castro, M. D., 1A11
 Lur'e, E. M., 6G2
 Lurie, I. S., 1E20
 Luskina, B. M., 2C126, 3C117
 Lustenberger, P., 1D14, 1D255
 Luterotti, S., 3A16
 Luthe, H., 2D146
 Lutz, G. A., 3H21
 Lutz, T., 1D74
 Lux, G., 5H102, 6B189
 Luyten, Y., 6D260
 Luzzana, M., 2D112
 Lv'ov, A. V., 6C44
 L'vov, B. V., 1J118, 3J75
 Lyle, S. J., 3B69, 3J38
 Lynch, P. F., 2H2
 Lynch, R. J., 1J48
 Lynch, T. P., 4B94
 Lynch, V. P., 3G41
 Lynchak, K. A., 2B111
 Lyness, W. H., 2D200
 Lynn, S. C., jun., 2D159
 Lyon, J. M., 5D32
 Lytle, F. E., 4J114
 Lyu, Z. I., 3J66
 Lyubchenko, V. Ya., 1F46
 Ma, B., 5B70
 Ma, C., 2D221
 Ma, D., 3A13
 Ma, Gairong, 6E60
 Ma, Guangzheng, 3H96
 Ma, H., 6J171
 Ma, J., 3H96
 Mabon, F., 2C19
 Mabon, R. M., 1F29
 Mabuchi, H., 4D6
 McAdoo, T., 2D275
 McAllister, R. G., jun., 2D89
 McBay, A. J., 4D77
 McBeth, G. W., 2B39
 MacBride, D. E., 6F10
 McBride, L., 5D206
 McBrien, D. C. H., 6D121
 Macca, C., 3A21
 McCaffrey, J. T., 4J91
 McCall, S. L., 2J124
 McCalley, D. V., 4E10, 6E14
 McCallum, N. K., 4F61
 McCapra, F., 3D277, 5D162
 McCarron, M. M., 4D93
 McCarthy, J. P., 4J89
 McCarty, L. P., 1D105
 McClelland, J. F., 1J142
 McClelland, M., 4D57
 McClenny, W. A., 3H27
 McClintock, S. A., 5J57
 McCloskey, J. A., 1C16, 2D271, 4D287
 McCollum, K., 5D152
 McComb, R. B., 6D4
 McCormack, J. J., 6D125
 McCoy, R. E., 4D212
 McCreery, R. L., 1J145
 McCreery, D. A., 3D223
 McCrory-Joy, C., 5B144
 McCue, M., 5J60
 McCullagh, C. M., 3A30
 McDiarmid, R. E., 6G19
 MacDonald, A., 1F23
 Macdonald, I. A., 4D197, 5D198
 McDonald, J. R., 6D137
 McDonald, J. T., jun., 5C47
 McDonald, K. L., 2C100
 MacDonald, R. J., 1J177
 McDonald, S. R., 2J152
 McDonald-Gibson, R. G., 5J77
 MacDougall, C. S., 2H26
 McDowall, M. A., 2E21, 3J26
 McDowall, R. D., 5D69
 McDowell, L. L., 6G35
 McDowell, P. G., 1G40
 McDowell, R. A., 3D12
 Maceira Vidan, A., 2B31
 McElhaney, G. E., 6J49
 McElroy, F. F., 3H27
 McElroy, R. G. C., 2H8
 McEntire, J. E., 5D143
 McErlane, K. M., 6D111
 McEwen, C. N., 6J116
 McFarland, K. F., 6D248
 MacFie, H. J. H., 1A7
 McGann, M. A., 6D235
 McGauch, J. L., 3D57
 McGee, E., 5D199
 McGeeney, K. F., 3D303
 McGhie, A. R., 4J143
 McGilliard, A. D., 3D134
 McGilveray, I. J., 6D107
 McGinnis, K. M., 5D42
 McGowan, M. W., 2D167, 2D168, 3D167, 6D183
 MacGregor, C. H., 6J49
 McGuffin, V. L., 1J32, 5J28
 McGuire, J. M., 3J29
 McHan, F., 6G15
 McHan, J., 6D74
 Machek, V., 5B186
 Machev, A., 4G19
 Machida, T., 1D265
 Macholan, L., 3D199
 McHugh, J. B., 4H47
 Machula, A. A., 3C73
 Machulla, H. J., 3D169
 Machul'skii, B. M., 1C125
 McIntyre, A. E., 2H109
 McIvor, R. S., 1D115
 Mack, G., 4D240
 Macka, M., 1B58
 McKay, G., 5D53
 McKay, J. J., 4D128
 MacKeen, J. E., 1D36
 McKenna, W. J., 1D87
 McKenney, C. L., jun., 2H92
 MacKenzie, A. M. R., 2D69
 McKenzie, D., 2D279
 Mackenzie, J. R., 3D285
 Mackenzie, P. I., 5D210
 Mackie, I. M., 2F22
 McKim, J. M., 3F18
 McKinney, J. D., 3D46
 McKinnon, A. J., 1C105
 Macklin, J. W., 4B122
 McKown, H. S., 2J136
 McLafferty, F. W., 1J171, 1J172, 3E21, 3J99
 McLaughlin, L. M., 2D128
 McLaughlin, L. W., 3D271
 McLaughlin, P. J., 6D278
 McLean, G. A., 2J115
 McLelland, A. S., 1D1
 Macleod, K. C., 1B33
 MacLeod, K. E., 1D111
 McLeod, R., 6D252
 MacLeod, S. M., 1D96
 McLeod, W. R., 3D206
 McMahon, W. A., 3H94
 McMillan, M., 4D261
 McMurray, R., 2B95
 McMurtrey, K. D., 2J21, 6J57
 McNair, H. M., 1J26
 McNally, M. E., 4H69
 McNaughton, N. J., 4B105, 4J106
 MacNeil, J. D., 1E60
 McNeil, K., 4D72
 McNerney, R., 5G8
 MacPherson, H. B., 6B56
 MacPherson, J. S., 3D187
 McPherson, R., 4B165
 McQueen, D. H., 6J104
 Macrae, R., 3F43
 McTaggart, N. G., 1H89, 1H90
 Macvarish, I. P., 2D10
 McVey, L. A., 3B49
 McVittie, J., 5D53
 McWeeny, D. J., 5F62
 Madan, U., 1B140
 Madani, A. A. E., 6E9
 Madapallimattam, G., 6D231
 Madden, B. G., 2C35
 Madden, D. L., 6D9
 Maddock, J., 3D106
 Maddocks, J. L., 1D95
 Madej, A., 4A23
 Madelmont, J. C., 3D104
 Madey, R., 2C14
 Madhyastha, M. S., 6F27
 Madraswala, K. H., 5B87
 Madsen, S. M., 6D130
 Maeda, Hironori, 1B139
 Maeda, Hiroshi, 3D300
 Maeda, K., 3D261
 Maeda, Masako, 3D190, 3D191
 Maeda, Masunobu, 2B75
 Maeda, S., 2B52
 Maeda, T., 1B31
 Maeda, Y., 2H44
 Machrein, W., 3D135
 Maekawa, M., 2D141
 Maekawa, Y., 4C60
 Maes, R. A. A., 1D61, 5D63
 Maessen, F. J. M. J., 5J120, 6B2, 6D15
 Maestro Duran, R., 5F76
 Maetzel, U., 5F59
 Maevskii, G. A., 1J21
 Maffiolo, G., 5H17
 Magearu, V., 4D308
 Magee, R. J., 4C90, 6C34
 Maggi, L., 1B9
 Maggiali, C. A., 4D179
 Maghrawy, H. B., 6B161
 Maghuin-Rogister, G., 3D74
 Magidman, P., 5J82
 Magin, D. F., 2D109
 Magistrelli, C., 1J111
 Maglia, P., 3B60
 Magnani, H. N., 3D262
 Magnusson, B., 1H50
 Magri, A. D., 4D186
 Mahadevan, A., 1G16
 Mahadevappa, D. S., 4A16, 5B94, 5H81, 6D215
 Mahajan, R. C., 4D115

- Mahan, K. I., 4H40, 4H41
 Mahant, V. K., 2D9
 Mahanti, H. S., 1J128, 2B54, 2B87, 2C34, 5B179, 6B60
 Mahdawi, R., 3D194
 Maher, W. A., 3B119, 4H79, 5B130
 Mahle, C. J., 2D142
 Mahmod, S., 6D63
 Mahoney, J. F., 3J58, 4J112
 Mahoney, M. J., 4D152
 Mahoney, R. R., 1F7
 Mahuran, D., 4D232
 Mahuran, D. J., 5D213
 Mahuren, J. D., 4D297
 Mai, J., 1D125
 Mai, Junli, 4E59
 Mai, K., 1C27
 Maidanov, V. V., 4E26
 Maier, H. G., 3F42, 5F59
 Maerski, H., 6H52
 Maietti, S., 5G30
 Mailhe, L., 4E68
 Main, P. L., 6J122
 Mainville, C., 6D107
 Maita, E., 3D289
 Maitin, B. K., 4A17, 4C8
 Maitlen, J. C., 6G24
 Maitra, A. M., 1B12
 Maitra, C., 4A14
 Maiwal, U. C., 3B73
 Majak, W., 6G19
 Majchrzykowska, J., 1E52
 Majer, J., 6J41
 Majima, R., 3E45
 Majumdar, N. P., 3B29
 Makar, H. V., 1B1
 Makarenko, N. P., 2C42
 Makeeva, E. P., 1H35
 Makhnev, Yu. A., 3B34, 3B36, 4B55
 Maki, Y., 1G11
 Makide, Y., 4H20
 Makin, H. L. J., 1D137, 2D194, 5D116
 Makino-Tasaka, M., 3D281
 Makkar, H. P. S., 2D147
 Makker, S. P., 6D241
 Maklakova, V. P., 2H80
 Maksimov, D. E., 3B90, 6B134
 Maksimov, G. A., 1B109
 Maksimova, T. N., 1C107
 Maksimovic, M., 1D101, 1E74
 Maksimyyuk, E. G., 3D32
 Maksoud, H. M., 6D54
 Maksyutina, M. P., 4E35
 Malagodi, M. H., 6D161
 Malaisse, W. J., 1D44
 Malaisse-Lagae, F., 1D44
 Malandain, H., 6D177
 Malashonok, V. A., 4B162
 Malat, M., 2B51
 Mal'chikov, G. D., 4B202
 Malchiodi, A., 4D273
 Malchow-Moeller, A., 1D148
 Malcolm, S. J., 5D78
 Malejka-Giganti, D., 5D209
 Malesani, G., 6C8
 Malihi, F. B., 4C85
 Malik, W. U., 3B62
 Malikowska, H., 3C66, 6C42
 Malin, M. J., 4D8
 Malinowski, E. R., 5J60
 Malinski, T., 1J195, 1J196, 4A16
 Malisch, R., 3H7
 Malissa, H., jun., 3J56
 Maljkovic, D., 2J84
 Malkina, E. I., 5B61
 Malkova, E. M., 6B85
 Mallapurkar, V. S., 5B87
 Mallet, A. I., 2D228
 Malloch, J. D. R., 6H35
 Mallory, J. H., 1C90, 6C68
 Mallory, M. A., 1D30
 Malmqvist, K. G., 1J181
 Malmstrom, A., 5D235
 Malofeeva, G. I., 4B195, 5B159, 5B169
 Malyavin, N. A., 3H32
 Malyuta, V. F., 4B130, 4B212, 5B44, 5B148
 Mamakina, N. G., 3B101
 Mamedov, M. M., 1B44
 Man, N.-K., 4D227
 Manabe, O., 2C52
 Manahan, S. E., 6H54
 Manasse, G., 3D282, 3D283
 Manchanda, V. K., 3B77
 Mandava, N. B., 5J23
 Mandel, J., 2A8
 Mandloi, V. S., 6C78
 Manfredi, G., 4D179
 Mangani, F., 4H86
 Mangia, A., 4B123, 5B156, 5C28
 Mangold, K., 4C7
 Mani, R. S., 2D244, 3D218
 Manina, O. I., 3C108
 Manjappa, S., 4B158
 Mann, A. J., 4D72
 Mann, W. C., 6D117
 Manning, D. C., 1H47, 1J115, 1J119, 5J115, 6B99, 6J90
 Manning, D. L., 4H93
 Mantel, M., 3B143
 Mantler, M., 2J88
 Mantovani, A., 3H95
 Manz, U., 3G26
 Manzato, E., 6D185
 Manzocchi, A., 5D94
 Manzoor, A., 6E33
 Mao, Q., 6F71
 Marafioti, R. A., 1G38
 Marai, L., 4D163
 Marassi, R., 6J164
 Marathe, S. M., 3B44
 Marcatto, B., 5C85
 Marchak, T. V., 1B184
 Marchand, J., 2D31
 Marchand, M., 6H51
 Marchandise, P., 3H44
 Marchenko, R. J., 3B179
 Marchessault, R. P., 5D80
 Marchetti, F., 3D282, 3D283
 Marcheva, E. V., 4B195, 5B159
 Marchidan, S., 5B118, 5B153, 6B117
 Marciani, D. J., 3D245
 Marciniak, B., 3E26
 Marco, J., 1J102
 Marey, J. C., 2F57
 Marczenko, Z., 1B186, 4B137, 6B178
 Marder, S., 4F35
 Mardh, P. A., 1D119
 Marek, M., 6F23
 Mares, P., 4D162
 Marfat, A., 6D172
 Margel, S., 2J42
 Margeson, J. H., 4H13
 Margolis, J., 3D240
 Margoliush, H. S., 1D276
 Margot, P. A., 5D51
 Marhevka, J. S., 2C16, 2D103
 Mariani, C., 1F55
 Mariani, E. P., 6E17
 Mariani, L., 5D189
 Mariani, R., 1D63
 Marichy, M., 4J58
 Marie, P., 3D107
 Marien, K., 1B28
 Marier, E., 4D188
 Marine-Font, A., 4F31
 Marini, D., 3E20
 Marini, G. I., 2J186
 Marino, E. L., 4D104
 Marin Sanchez, C., 1B50
 Marion, C., 6J79
 Mariotte, N., 6D202
 Marisol, M., 1E34
 Mark, H. B., jun., 2J166
 Marker, A. F. H., 3D268
 Markert, R., 6F62
 Markes, S. P., 1J91, 3J101, 6J115
 Markham, A. F., 3D273
 Markides, K., 1J76, 1J77
 Markiewicz, M., 1C22
 Markis, R. E., 4B9
 Markle, J. C., 3G42
 Markova, L., 2B165, 3B88
 Markovec, L., 4C90
 Markowicz, A., 5H53
 Marks, G. S., 3D318
 Marks, J. Y., 2B157
 Marie, L., 4D100
 Mariett, J. A., 6F4
 Marmin, A., 1H90
 Maroni, M., 4D153
 Marozzi, E., 1D63
 Marples, J., 4D65
 Marquardt, K., 3H41
 Marquet, A., 1D252
 Marrero-Ardila, D., 3A19
 Marriott, P. J., 1C68
 Marrosu, G., 1H54
 Marrs, R. P., 6D224
 Marschner, I., 5D168
 Marsh, P. G., 5D113
 Marshall, D. L., 1D55
 Marshall, G. B., 5B126
 Marshall, J., 2J110, 4J85, 6J95
 Marshall, T., 3D237
 Marsoner, H., 2A14
 Marstorp, P., 5F48
 Martell, C. J., 6B83
 Martens, H., 6A17, 6F75B
 Martensson, J., 2D53, 6D40
 Martin, B. A., 6D225
 Martin, E., 1F11
 Martin, F., 2D210
 Martin, G. J., 2C19, 3C28
 Martin, H. L., 1F47
 Martin, J. C., 5C73
 Martin, L. E., 1D86
 Martin, R. A., jun., 3F18, 5F24
 Martin, R. F., 1D227
 Martin, R. J., 4D246
 Martin, T. D., 1H69, 1H88
 Martin, V., 2D231
 Martinez, C., 4C45
 Martinez, E., 1D152, 3D215
 Martinez de la Barrera, M. R., 4H9
 Martinez-Dewane, M., 1G34
 Martinez-Lozano, C., 2B17, 3B41, 5B41
 Martinez-Vea, A., 6D221
 Martinez-Vidal, J. L., 3A11
 Martin-Mateos, E. J., 4B113, 6B44, 6B119
 Martinsen, D. P., 1J175
 Marton, J., 3C101
 Marton, L. J., 3D77, 4D66, 4D176
 Marton, T., 3C101
 Martony, L., 1B2
 Marty, M., 5D77
 Martynov, A. P., 3A8
 Maru, R., 4F16
 Maruhn, D., 4D27
 Maruta, K., 6D164
 Maruyama, M., 4B160
 Maruyama, Masao, 2E44
 Maruyama, T., 3F54
 Maruyama, Y., 3D43
 Marzo, A., 3D128
 Masaracchia, R. A., 3D293
 Mascher, H., 5D70
 Mascherpa, A., 5C58
 Mascini, M., 1D15, 2J175, 3D208, 4D336
 Mashinskaya, S. Ya., 2H57
 Maskarinec, M. P., 4H93, 5C35
 Maslii, L. K., 5H4
 Maslova, A. I., 6B115
 Maslow, W. C., 2D293
 Maslowska, J., 3C97, 4J64
 Mason, L., 4D195
 Mason, P. A., 6D100
 Masoud, A. N., 3E70, 6C46
 Massano, G., 3D139
 Massart, D. L., 1A6, 1J13, 4J74, 5B116, 5F30, 6E25
 Masschelein, W. J., 4B151
 Masserini, M., 3D175
 Massey, P. R., 3D106
 Massey, T. H., 3D296
 Massmann, H., 5J118
 Masson, A., 3H51
 Masson, G. M., 1D212
 Masuda, I., 2A12
 Masui, T., 2D138
 Masujima, T., 1D178
 Masuoka, T., 5D224
 Matano, O., 2G14, 3G39, 6B114, 6G27
 Matantseva, E. F., 1E18
 Matarese, R. M., 5D81
 Matat, L. M., 3B33
 Materova, E. A., 6J136
 Mathew, K. A., 5B92
 Marrero-Ardila, D., 4B139
 Mathiasson, L., 5H38
 Mathieu, J., 2J4, 6B25
 Mathis, D. F., 1D62
 Mathur, A., 2D306
 Mathur, S. N., 2D306
 Mathur, S. P., 2B153, 6B145
 Matienzo, L. J., 3H34, 6C58
 Matisek, R., 2C95
 Matisova, E., 1J80, 1J81
 Matkovics, B., 3D247
 Matoh, I., 5C22
 Matook, G. M., 4D118
 Matousova, O., 6E26, 6E53
 Matrkra, M., 3C37, 3C57, 4C23
 Matsubara, C., 4D154
 Matsuda, H., 6J114
 Matsuda, M., 4D215
 Matsuda, Takashi, 2H44
 Matsuda, Tsutomu, 3A15
 Matsuda, Y., 5D164
 Matsuhima, K., 5F9
 Matsuhisa, T., 2F61
 Matsui, K., 2E19
 Matsui, M., 1A9, 1H45, 5B79
 Matsui, T., 1J139
 Matsuki, Y., 2F7, 2F9
 Matsumoto, H., 2H74
 Matsumoto, I., 2D138
 Matsumoto, K., 4D40
 Matsumoto, Kazuaki, 4J48
 Matsumoto, Ken, 4H64
 Matsumoto, M., 2E53
 Matsumoto, S., 5B26
 Matsumoto, T., 1D124
 Matsumoto, Takeshi, 2D185
 Matsumoto, Taro, 2D187
 Matsumoto, Y., 1B139
 Matsumura, K., 6D113
 Matsunaga, Y., 6D262
 Matsuno, S., 5B11
 Matsuo, K., 4B121
 Matsuo, Tadayuki, 3D25
 Matsuo, Tsutomu, 3B103
 Matsusaki, K., 1B72
 Matsushima, H., 1H92
 Matsushima, Y., 1D83
 Matsushita, S., 5B3
 Matsushita, T., 5J98
 Matsuura, A., 3D75
 Matsuzuru, H., 4B101
 Matta, K. L., 2D282
 Matter, L., 1G32
 Matthaei, M., 3E24
 Matthees, D., 3G24
 Matthew, J. A., 5G8
 Matthews, T. G., 1H30
 Matthews, H., 3D249
 Mattiasson, B., 1D12, 1D202
 Mattick, L. R., 3F51
 Mattiuz, E. L., 1D118
 Mattoon, T. R., 6J96
 Matusca, P., 6H48
 Matusiewicz, H., 5J108
 Matveev, O. I., 4B33
 Matyas, Z., 3G5
 Matyka, S., 6G16
 Matysik, G., 4C31
 Maudinas, B., 2D210
 Maul, C., 1B15
 Maurer, H., 3D91, 4D94
 Maurer, R., 3G26
 Maurer, V. I., 1B165
 Maurich, V., 5E28
 Mauriello, P. M., 1D100

- Mauritz, G., 3D194
 Mauterer, R., 5B99
 Mauzac, M., 2D124
 Mawhinney, T. P., 2B15, 3B14
 Maxwell, J. R., 1C68
 May, B. K., 5D207
 May, E. M., 4E83
 Maya, L., 1J31
 Mayer, B., 4D69, 4D157
 Mayer, G. G., 2D136
 Mayer, G. S., 1D151
 Mayer, P. R., 1D98
 Mayersohn, M., 6D204
 Mayfield, C., 3D181
 Mayfield, R. J., 3C103
 Mayhew, J. W., 6D119
 Maylin, G. A., 3D73, 4D51, 5D41
 Maynard, P., 1J193
 Mazalovic, M., 1E62
 Mazer, T., 3C65
 Mazumdar, K. K., 1G30
 Mazurkiewicz, M., 3B155, 3B173
 Mazzella, G., 3D208
 Mazzeo, P., 3C6
 Mazzeo-Farina, A., 3C6
 Mazzucotelli, A., 4D39
 Mdivnishvili, O. M., 5B38
 Meakin, B. J., 2E58
 Meara, L. A., 3J130
 Mechin, B. G., 3C28
 Medic-Saric, M., 1E53
 Medja, A., 1J65
 Medvedeva, E. I., 3H76
 Medvedeva, L. I., 4B19
 Mee, A. V., 2D253
 Meech, S. R., 1J105
 Meek, J. L., 4D99
 Meek, J. T., 4C39
 Meemken, H. A., 3F22
 Meenakshisundaram, V., 3B181
 Meerdink, G. L., 4D20
 Meeues, J. C. T., 2D45
 Meeuwissen, C. A. J. M., 5F65
 Mefflah, K., 1D14, 1D255
 Meggiorini, S., 3D201
 Mehler, J. E., 5H41
 Mehlikopf, A. F., 6J109
 Mehra, M. C., 3B133
 Mehra, R. K., 6D232
 Mehra, V., 1B180
 Mehran, M., 4J66
 Mehran, M. F., 2H68
 Mehta, A. C., 5D61
 Mehta, A. G., 1B62
 Mehta, H., 4A4
 Mehta, V. P., 2B153
 Mehta, Y. P., 2C40
 Mei, J., 1C38
 Meic, Z., 1E58, 6E55
 Meier, B., 6F62
 Meier, J., 2H21
 Meier, S., 1J155
 Meier, V. A., 6B7
 Meier, V., 1G31, 6G31
 Meier G., N., 4D84
 Meighen, E. A., 4D148
 Meihaus, V., 2D285
 Meijer, A. J., 3D200
 Meijer, J. W. A., 5D45
 Meikrantz, D. H., 1J183
 Meili, J., 3J119
 Meil'man, M. L., 6B193
 Meiselman, S., 5J51
 Meisner, L. B., 4B207
 Meites, L., 4A24
 Mejia, L. A., 6D244, 6D266
 Mejkrik, V., 3C37, 3C57, 4C23
 Mekiffer, O., 6J173
 Meklati, M., 6B73
 Melamies, L., 4D259
 Melancon, S. B., 4D262
 Melandri, C., 1H6
 Melan'ina, A. A., 6G32
 Melcher, F. W., 3D162
 Melcher, R. G., 4D130, 5H18
 Melchior, F. L., jun., 1H18
 Melekhova, N. E., 5C34
 Melgard, R., 4H2
 Melik, D. H., 6J175
 Melis, P. H. A. M., 4H34
 Melis, S., 4C69
 Mellerio, G., 5D95
 Mellor, L. D., 2D52
 Mellor, N., 1J37
 Mellor, T. J., 1J188
 Mel'nikova, N. A., 1C117
 Meloni, M., 3G35
 Meloni, S., 1B9
 Memoli, A., 4D336
 Menard, D., 4E68
 Mencia-Huerta, J. M., 6D172
 Mendyk, W., 3B149
 Menendez, R., 4C38
 Menet, H., 5J32
 Meng, F., 4D29
 Menon, M., 2D142
 Mentasti, E., 1C41, 4B40
 Menzies, K. T., 5H27
 Meranger, J. C., 3D35
 Mercer, D. W., 2D286
 Merdjan, H., 5D73
 Meresz, O., 2H83, 5H47
 Mericam, P., 1J197
 Merle, L., 4D64
 Merlin, S., 1D161
 Merrick, R. L., 6G11
 Mertens, J. J. R., 3J50
 Mertens, N., 1J13
 Mertsalov, S. L., 4B19
 Merzlyak, M. N., 6D256
 Meshali, M., 6E57
 Meshkova, L. A., 5A21
 Meshkova, S. B., 2B65
 Messler, A., 2D280
 Messman, J. D., 6J83
 Metayer, C., 6D18
 Metcalf, M. G., 5D114
 Metcalf, P. A., 1D214
 Metcalfe, D. D., 1D161
 Metche, M., 6C74
 Metz, P., 3D194
 Metz, S. A., 6D171
 Metzner, K., 6C73
 Meulemans, A., 3D64
 Meulendijk, P. N., 1D249
 Meyer, A., 6B160
 Meyer, C., 2C56
 Meyer, D. K., 1D181
 Meyer, H. D., 1D223
 Meyer, M. C., 4D62
 Meyer, P., 1D164
 Meyer, S. D., 2H32
 Meyerhoff, G., 3J30
 Meyerhoff, M. E., 4D218
 Meyers, S. P., 3D272
 Meyers, W. E., 2H79
 Meyniel, G., 3D104
 Mezei, L. M., 6D81
 Miao, H., 6E47
 Miazek, I., 6B14, 6B15
 Mibuchi, Y., 6D285
 Michael, R., 3D232
 Michalek, M., 1G28
 Michalowski, T., 2A18, 4B3
 Michalski, J. C., 3D153, 5D172
 Michaut, C., 1B55
 Michel, R. G., 4J91
 Michelini, F., 2G11
 Michelot, J., 3D104
 Michiels, E., 2B24
 Michiels, M., 1D68
 Michon, M. J., 2C19
 Middleton, A. P., 1H27
 Middleton, E., jun., 1D100
 Middleton, R., 1H16
 Midgett, M. R., 4H13
 Midgley, D., 5B126
 Midgley, J. E. M., 2D8
 Midha, K. K., 1D123, 5D53
 Miellet, C. C., 2D93
 Mier, P. D., 4D324
 Mietling, S. W., 5D128
 Migaichuk, I. V., 3C29
 Migneault, D. R., 3J70
 Mignini, E., 4C69
 Mihail, M., 3J141
 Mihaila, E., 6B112
 Mihalik, M. C., 4D8
 Mihara, Y., 6B196
 Mihashi, S., 4J31
 Mikaya, A. I., 2C18
 Mikes, O., 2J44, 5D155
 Mikhailov, V. A., 3A23
 Mikhailov, V. V., 5E16
 Mikhailova, A. M., 5B9
 Mikhailova, I. Yu., 6E34
 Mikhailova, N. N., 1C117, 3C114
 Mikhailova, S. S., 3B31
 Mikhel'son, K. N., 6J136
 Mikotic-Mihun, Z., 6E51, 6E55
 Miksic, J. R., 6D104
 Milazzo, T., 1B49
 Milburn, H. B., 4J1
 Miles, C. J., 1G27, 4H81, 4H82
 Miles, D. L., 5H48
 Miles, J., 2D135
 Milewski, M., 4C27
 Milina, R., 2A21, 5J92
 Millar, J. A., 3D226
 Millar, J. D., 2H108
 Millard, D. L., 5J131
 Millart, H., 3D131
 Millen, W. G., 4J111
 Miller, A. G., 4B122
 Miller, A. M., 1D88, 3D114
 Miller, B., 2A4
 Miller, D. D., 1F19
 Miller, J. C., 3J22
 Miller, J. E., 4D88
 Miller, J. N., 1D48, 2D9
 Miller, L. J., 6C31
 Miller, L. T., 1D120
 Miller, M. L., 4B109
 Miller, R., 3D286
 Miller, R. H., 6F9
 Miller, R. L., 2C63, 5C53
 Miller, R. M., 4J96
 Miller, S. E., 2H22
 Miller-Ihli, N. J., 2J110, 3J69
 Mills, G. A., 5H35
 Milne, G. M., 4D73
 Milne, G. W. A., 1J175
 Milton, H., 4D194
 Milward, L. J., 6G23
 Milyutin, V. V., 5B167
 Min, D. B., 4F77
 Minami, Y., 4D214
 Minatogawa, Y., 6D89
 Mindin, V. Yu., 3B92
 Mine, T., 2F8, 2F9
 Mineo, L. C., 6C70
 Miner, D. J., 1D91
 Minganti, C., 4A11
 Minganti, V., 4D39
 Mingay, D. W., 5J101, 6B6
 Mingrone, G., 2D186
 Minier, L. N., 3D222
 Minin, A. A., 5B63
 Minka, A. F., 2E4
 Minnick, R. D., 4D20
 Minocha, P. K., 1C12
 Minoia, C., 4D39
 Minsker, D. H., 6D120
 Mintez, S., 5H9
 Minus, H. R., 4D124
 Minyailo, R. M., 6E61
 Mioc, U., 1C75
 Mirkamilova, M. S., 3B94
 Miro, J., 1D31
 Mironova, T. V., 4E15, 6E18
 Miroshnik, L. V., 1J60
 Mirrett, S., 2D22
 Mirti, P., 4B40
 Mirzoyan, I. I., 6B40
 Mirzoyan, R. S., 3C35
 Mischan, M. M., 4F22
 Mise, N., 4B14
 Miso, E. V., 3H23
 Mishchikhin, V. A., 6H30
 Mishin, V. I., 1B109
 Mishra, R. K., 1B126, 2B131, 3B32, 5B34, 5B121
 Miskar'yants, V. G., 4B195
 Misumi, H., 1D256
 Misztal, G., 2E63
 Mitchell, D. F., 6B101
 Mitchell, J. R., 5D110
 Mitchell, M. C., 6J92
 Mitchell, M. D., 1D258, 6D169, 6D170
 Mitchell, W. J., 4H13
 Mitchum, R. K., 1C64, 2H5, 6J70, 6J71
 Mitera, J., 4C46
 Mitiska, J., 6F72
 Mit'kin, V. N., 4B49
 Mitsuhashi, Y., 2F7
 Mitsui, T., 4D214, 4E30
 Mitsui, Y., 4B118
 Miura, Yasuhiro, 6D167
 Miura, Yasunao, 3H59
 Miwa, B., 1F24
 Miwa, T., 2B159
 Miyata, T., 4D211
 Miyada, D., 2D19
 Miyai, K., 2D224, 4D184
 Miyaji, Y., 6D249
 Miyake, M., 5B29
 Miyake, S., 2D90
 Miyamoto, F., 2F24
 Miyata, H., 3D315
 Miyachi, A., 2D232
 Miyawaki, M., 4B92
 Miyazaki, Hiroshi, 1D92, 2D302
 Miyazaki, Hisashi, 6D262
 Miyazima, S., 2H74
 Miyokawa, K., 2A12
 Mizetskaya, I. B., 3B33
 Mizobuchi, Minoru, 1D73
 Mizobuchi, Munechiko, 1D43
 Mizoguchi, T., 1H26
 Mizokami, K., 6D85
 Mizuike, A., 2B159, 3B142, 4H38, 5B112, 5H50
 Mizukami, H., 6D155
 Mizuno, K., 4H38
 Mizushima, Y., 3H75
 Mizuta, H., 2D224
 Mizutani, F., 3D160
 Mizutani, T., 6D258
 Mkrchyan, A. L., 3C35
 Mochi, M., 4D53
 Mochida, K., 3D309
 Modai, A., 3D64
 Modak, S. R., 2J45
 Modi, G., 2F14
 Moe, D., 5D219
 Moersky, P., 6D283
 Moffat, A. C., 1D113, 1J50, 4D74, 4E64, 4J39, 6D100
 Mogensen, M., 2B79
 Mohamed, H. K. S., 3D218
 Mohamed, M. A., 3B99
 Mohamed, M. E., 4E58, 4E61, 6E62
 Mohamed, N., 6J84
 Mohammed, A., 2D69
 Mohan, K. R., 3E66, 4E57
 Mohiuddin, G., 6B27
 Mohler, J., 3D64
 Moinet, A., 6H55
 Mokry, M., 3E72, 5E4
 Moldescu, P., 3D163
 Moldoveanu, S., 5H91
 Moledina, K. H., 5F54
 Moleman, P., 6D166
 Moler, G. F., 2H5, 6J70, 6J71
 Molin, L., 4D60
 Molin, W. T., 3D272
 Molina-Buendia, P., 5B43
 Molinari, E., 4D267
 Molinari, M., 3C68
 Moller, B., 6D216
 Molnar, J., 2E27
 Molnar, Z., 4H6
 Molt, D. A., 4G10
 Molt, K., 1D22
 Moltzen, B., 2F27
 Momose, A., 2D144
 Momose, T., 1D73
 Monaco, F., 5D48
 Monaco, S. B., 6C59
 Monat, J. P., 5H21
 Mondal, S., 2D263

- Mongay, C., 2A11
Mongay Fernandez, C., 5A29
Moniot, R. K., 1B49
Monk, J. P., 4D203
Monnier, J., 2D31
Monseigny, A., 6F69
Monserrat, F. F., 1D160
Montag, A., 4F36
Montali, A., 4D171
Montana Gonzalez, M. T., 2B19
Montay, G., 3D116
Monte, W. C., 4F42, 5F60
Montiel, A., 1D224
Montreuil, J., 5D172
Monzani, A., 5F18
Moodie, I. M., 5G18
Moody, G. J., 3A2, 3D44, 3J135
6J139
Moody, J. P., 1D66
Moody, J. R., 5J1
Moody, K. J., 3B85
Moody, R. T., 3D220
Moody, T. W., 1D181
Moolenaar, F., 6D56
Moon, R. J., 6J140
Mooney, S. A., 1C73
Moore, D. S., 1B148
Moore, G. L., 5J128
Moore, H., 4D261
Moore, J. W., 4J93
Moore, K., 6D245
Moore, L. E., 3J27, 3J109
Moore, L. J., 4J114
Moore, M. J., 6H6
Moore, R. J., 2D285
Moore, W. S., 1H59
Moorehead, W. R., 3D244
Mopper, K., 2C26, 3D144
Morale, M. C., 5D123
Morandi, M. T., 4H16
Moranzoni, S., 2C109
Moravkova, O., 3E2
Moreau, M. F., 3D104
Moree-Testa, P., 1D6
Morell, M., 3D311
Morell, V. O., 6D279
Morelli, B., 3B156
Moreno, A., 1F5
Moreno Cordero, B., 5B65
Moreno-Dominguez, T., 4F31
Moresco, A., 4H52
Moreth, M., 3D168
Moreton, J., 6A29
Moreton, P. A., 5H99
Morey, P. R., 6H58
Morf, W. E., 6J147
Morfin, R. F., 6D136
Morgan, D. K., 6D39
Morgan, E. D., 5D93
Morgan, I. L., 5A4
Morgan, J. W., 1B189
Morgan, M. R. A., 5G8
Morgan, R. P., 3C83
Morgan, S. L., 2D121, 6A9
Morgenlander, J. C., 4D150
Morgenstern, J., 3C110
Morgon, J., 2J11
Mori, I., 1B113, 2E46
Mori, K., 6H12
Mori, L., 4D200
Mori, S., 3C115, 6J32
Mori, Y., 2D138
Mori, Yasushi, 1H86
Moriarty, A. T., 3D244
Morii, K., 3F54
Morik, G., 3B59
Morikawa, Y., 4C68
Morimoto, K., 4E19
Morimoto, S., 2D232
Morini, E., 4D53
Morin Sorilla, J., 4B68
Morisako, I., 2J75
Morishige, K., 1B47
Morishita, F., 5C9
Morishita, Fujio, 5J12
Morita, H., 6H10
Morita, I., 1D178
Morita, Makoto, 4J31
Morita, Masatoshi, 1C60
Morita, Tomoshige, 6B177
Morita, Toshihiro, 4D25
Moriyama, K., 1H86
Moriyama, N., 4B101
Moriyasu, M., 4J17
Moriyasu, Masataka, 2B63
Morley, J. S., 4D230
Moro, E., 6D65
Morozova, V. P., 5C41
Morris, A. G. C., 5J103
Morris, G. E., 6D275
Morris, H. R., 3D12, 3J120
Morris, M. D., 4J40
Morris, W., 5F19
Morrison, G. H., 2J79
Morrison, N. M., 2F56, 6F58
Morrison, S. R., 4J11
Morrissey, M., 4D10
Morrissey, P. A., 2F20
Morrow, F. D., 4D246
Morrow, R. W., 2B77
Morse, G., 2C123
Morse, J. W., 6H32
Morsky, P., 3D306
Morton, K. O., 3D318
Morton, M. S., 5D162
Morvay, J., 3D79
Moryashchev, S. F., 2B146
Mosca, A., 2D112
Moschidis, M. C., 2D164, 4D164
5D111, 5D112
Moshchanskaya, N. G., 3G17
Moshinskaya, M. B., 5J16
Moskowitz, H., 4D97
Moskvin, L. N., 5B166
Moskvina, I. A., 4B201
Moskvitina, T. B., 3B42
Moss, C. W., 3D159
Moss, R. L., 4D237
Mossaad, M. M., 5J122
Mosseri, S., 4B34
Mosyagina, L. I., 3J156
Mote, N. A., 3B164, 5B160
Motohashi, M., 2D15
Motomizu, S., 3H50, 3H60,
4B164, 4H50, 5H68
Motooka, I., 5B115
Motozato, Y., 4J48
Mottola, H. A., 1J16, 2B128
Moulds, R. F. W., 3D129
Mount, D. L., 6D118
Mounts, T. L., 4F67
Movchan, S. A., 2J93
Mowery, R. A., jun., 1J53
Moye, H. A., 1G27, 6D161
Moyer, J. D., 5D181, 5D196
Moyle, T. P., 6J19
Mroczkowski, W., 4D35
Mrowetz, D., 5F20
Mroz, E. A., 1D45, 3D308
Mtema, C. A., 4D117
Mu, S., 6G14
Much, H., 2J23
Mucha, J., 5D145
Muder, R. R., 5D35
Mudshingkar, V. V., 6B51
Mueller, F., 1J85
Mueller, G., 1D145
Mueller, Hansrudolf, 3H88
Mueller, Helmut, 2A5
Mueller, Horst, 1D135, 5B170
Mueller, Hans Daniel Jakob,
4J29
Mueller, K. H., 3J93
Mueller, R. G., 3D4, 3D294
Mueller, U., 6C12
Mueller-Vogt, G., 5B132
Muensch, H. A., 2D293
Muh, J. P., 6D202
Muheim, J. T., 5B189
Muir, D. C. G., 6D142
Muirhead, J. M., 4F61
Mukai, H., 1H79, 1H82, 3H75
Mukelo, K. A., 3B93
Mukerji, D., 2D306
Mukherjee, G. K., 5B151
Mukherjee, H. G., 3B15
Mukherjee, P. N., 4J146
Mukhija, S., 4C3, 4C15
Mulawa, P. A., 2H25
Mulay, S., 6D68
Mulcahy, D. E., 1J188
Mulder, K. J., 5D5
Mulder, T. B. A., 6D129
Mulder-Krieger, T., 5E14
Mule, S. J., 1D72, 1D108
Muller, C., 6J82
Muller, D., 2D124
Muller, E., 4B42
Muller, J., 3H24
Muller, L. L., 2C107
Muller, P., 3H73
Mulligan, K. J., 2J71
Mullin, M. D., 3C121
Mullins, H. E., 1C4
Mulry, M. C., 6F8
Muminov, N. P., 5B74
Mun, I. K., 3J99
Munemori, M., 4H63, 6D213
Munoz, M. A., 2D56
Munoz de la Pena, A., 2B28,
5A16
Munoz Leyva, J. A., 2B140
Munro, Z., 6J72
Munson, B., 4J110
Munson, T. O., 3H72
Muntau, H., 5A18, 6D14
Munter, R. C., 2J122
Murach, K. F., 4J55
Murai, R., 1B61
Murakami, Y., 2H86, 3G10
Muralidhar, N., 2B60, 2B152,
5B73
Muraoka, T., 5D227
Murat, M., 1B209
Muratova, G. L., 6E34
Murav'eva, G. V., 5H13
Murayama, H., 1H79, 1H82
Muresan, L., 3J143
Murinov, Yu. I., 4B195, 5B159
Muriuki, S. K., 6G13
Murphy, A. J., 1J83
Murphy, G. M., 6D194
Murphy, R., 1D181
Murphy, R. C., 6D171
Murray, G. M., 5F64
Murray, I., 1G20
Murray, J., 4F40
Murray, M., 5D204
Murray, S., 2D307
Murray, T., 6D119
Murthy, A. K., 4E72
Murthy, K. K., 5B123
Murthy, K. R. K., 1D244
Murthy, K. V. S. S., 1E11
Murthy, R. S. S., 1D25, 4H44
Murtiashaw, M. H., 6D248
Murty, K. V. S. S., 5B24
Murty, N. K., 1B118
Murty, P. S., 3B44, 5B68
Murty, S. N., 3E66
Murugesan, A., 4E73
Musaev, Sh. A., 5C50
Musche, H., 6D156
Muschik, G. M., 2J29, 6J31
Muser, J., 1D270
Musetti, A., 2D112
Musha, K., 1B141
Mushygan, V. O., 6B166
Mushran, S. P., 4B197
Musil, J., 5A7
Mussche, P., 1J35, 5J38
Mussini, E., 4D336
Mussini, T., 1J186
Musumarra, G., 6C37
Muszkat, L., 2G16
Muto, M., 3C32
Mutschler, E., 1D99, 4D89
Mutsueva, S. Kh., 4E39
Mutti, A., 6D132
Muylle, E. P., 6H14
Muylle, L., 6D242
Muzhanovskii, E. B., 2E48,
6D139
Myara, I., 1D274
Myasnikova, I. A., 5B9
Myasoedov, B. F., 3G17
Myasoedova, G. V., 1B27, 5B39
Myazorg, U. Yu., 3D156
Myers, B., 1H85
Myers, M. N., 1J30
Myers, R. D., 2E16
Myher, J. J., 4D163
Mykhailik, O. O., 4D166
Mylon, K. R. D., 2B39
Myszor, M., 6D194
Nabi, S. A., 2D212, 3B79, 5J65
Nabrzyski, M., 3F36
Nachtmann, F., 6E29
Nacson, S., 3D11, 4D9
Nadkarni, A. D., 4E49, 4E65
Nadkarni, R. A., 1B191, 2B167
Nadudvari, I., 4C44
Nagahiro, T., 4B92
Nagai, F., 3D192
Nagai, H., 2H70
Nagamatsu, M., 2B112
Nagaoka, Y., 3D43
Nagar, M. S., 2B85
Nagase, M., 2J22, 5J36
Nagashima, Kozo, 2B52, 2B143,
4J82
Nagashima, Kunio, 1C50, 2J173
4B135
Nagashima, Y., 3F28
Nagata, T., 2F24
Nagatsu, T., 6D164, 6D270,
6D271
Nagel, D. J., 2J87
Nagels, L. J., 4D12
Nagl, A., 6E51
Nagpal, K. K., 5F45
Nagy, G. I. E., 4D193, 6J127,
6J128
Nagy, K., 6D43
Nagy, V. Yu., 5B7
Nahir, A. M., 1D60
Naidu, P. R., 1C49
Naik, N. R., 4E66
Naik, P. N., 4E51
Naik, R. R., 4E52
Nair, P. R., 2B83, 6B80
Nairn, R. S., 1D228
Naito, M., 3J125
Najafi, S. I., 6J123
Naka, Y., 3D75
Nakada, T., 4B136
Nakagawa, A., 2B75
Nakagawa, F., 4D116, 6D72
Nakagawa, G., 1B53, 5B49,
5B57, 5B84
Nakagawa, H., 5C88
Nakagawa, K., 4D248
Nakagawa, M., 2D305
Nakagawa, Terumichi, 1D153
Nakagawa, Tomoo, 4G5
Nakahara, T., 1D124
Nakahashi, H., 4D6
Nakahashi, Y., 4D231
Nakahira, S., 3D136
Nakajima, K., 4D248
Nakajima, Masa, 4B29
Nakajima, Motowa, 5D92
Nakajima, Y., 6B141
Nakamoto, M., 1H65
Nakamura, A., 4F37
Nakamura, E., 4D161, 6H56
Nakamura, Hajime, 1D221
Nakamura, Hideki, 3D66
Nakamura, Hiroshi, 2C39, 4A7,
4C20
Nakamura, Hiroyoshi, 2B112
Nakamura, J., 6D192
Nakamura, Kinichi, 4F62
Nakamura, Kiyoshi, 4C68
Nakamura, Koji, 3D235
Nakamura, M., 5F39
Nakamura, T., 5H63
Nakamura, Yoshinori, 5B29
Nakamura, Yuji, 2B143
Nakanishi, H., 2F8, 2F9
Nakanishi, S., 4J41, 6J33
Nakanishi, T., 3H70
Nakano, K., 2B109
Nakano, Masahiro, 3D253
Nakano, Mitsuru, 2B8
Nakano, N. I., 3D253

- Nakano, S., 3B27, 3B120, 3B130
 Nakano, T., 6D270
 Nakashima, K., 2D254, 4B150
 Nakashima, R., 1D34
 Nakashima, S., 1B116, 3H85, 4H49
 Nakata, Riichi, 1D47
 Nakata, Ryui, 5H55
 Nakatani, K., 2D224
 Nakatsuji, S., 4B150
 Nakayama, Haruo, 6B141
 Nakayama, Hiroko, 5D225
 Nakazaki, K., 5B115
 Nakazawa, Hiromoto, 5J104
 Nakazawa, Hiroyuki, 4D117, 5D40
 Nakazawa, T., 2D232
 Nakazoe, J., 1D220
 Nalbandian, R. M., 4D103
 Namba, Y., 4F62
 Nambara, T., 3D195, 4A8, 4D173, 6D191
 Namekawa, H., 6D108
 Namesnik, J., 2J5
 Namiki, H., 6H56
 Nanto, V., 1D262
 Naoumidis, A., 3B135
 Naqvi, S. F. A., 6B145
 Narafu, T., 2C96
 Narasimachari, N., 2D202
 Narasimhan, S. V., 6H37
 Narasimhan, V., 2J41
 Narayanan, P., 5B75
 Narayanan, S., 4J23, 6J46
 Narayanan, S. S., 2A10, 4H15
 Nariai, H., 5B115
 Narita, M., 1B159
 Narita, O., 1D205
 Narmetova, G. R., 5E16
 Narodetskaya, A. D., 6B59
 Narsimha, R., 3C33
 Naruse, H., 5D99, 6D208
 Naruse, Y., 2B21
 Narvaez, J. A., 3D311
 Nascu, H., 3C47
 Nash, A. M., 4F67
 Nashivan'ko, L. V., 4J129
 Nasra, M. K., 5J122
 Nasralla, M., 2D223
 Nassauer, T., 5E2
 Nassimbeni, L. R., 5D5
 Nasuto, R., 1J33
 Natansohn, S., 2B134
 Natarajan, P. R., 2B83, 6B80, 6B82
 Natarajan, V., 6B76
 Natelson, S., 2G1
 Nath, R. L., 4D140
 Nathan, D. M., 3D269
 National Water Council [UK], 2H75, 4G7, 4H87, 4H88, 4H91, 5D178, 5H97, 5H101, 6J54
 Naudin, G., 3J98
 Naujack, K. W., 1C70, 6H29
 Naum, N., 6B184
 Naumenko, V. A., 1C106
 Naumova, T. Yu., 3C36
 Navas, M. J., 6B174
 Navascues, I., 2D107
 Navas Diaz, A., 2A15, 4B18, 6H40
 Nayak, V. G., 4E4, 4E66
 Naylor, G. J., 5D188
 Naylor, J. A., 4C91
 Nazar, M. A., 4C59
 Nazarchuk, N. M., 4B63
 Nazarenko, A. Yu., 3B7, 3B8, 3B25, 5B147
 Nazarenko, V. A., 2B48, 3B126
 Ndiaye, S. A., 3E68
 Ndiokwere, C. L., 6D38
 Ndoume-Nze, M., 2D124
 Neacsu, V., 6B96
 Nechaev, S. V., 4B162
 Nedomova, K., 2B51
 Neeb, R., 2B61, 4D44, 5B119, 6B160
 Needham, R. E., 1E77
 Neele, J. C., 1E13
 Neels, H. M., 5D46
 Nefedov, V. I., 4B195, 5B159
 Neff, N. H., 1D150, 1D241
 Neff, W. E., 5F72
 Neftel, A., 4H54
 Negoiu, M., 5B167
 Negretti, V. E., 2D41
 Neidhart, B., 5H39, 6D198
 Neigreisz, Z., 1E5
 Neill, D. B., 2J178
 Neill, E. A. M., 6D114
 Neiman, E. Ya., 2B148
 Nekryach, E. F., 3H65
 Nelboeck, M., 5A17
 Nelen, I. M., 1C9
 Nelis, H. J. C. F., 1D58, 4D271
 Nelson, D. E., 2H51
 Nelson, K. H., 5C77
 Nelson, K. M., 6D80
 Nelson, M. A., 3D77, 4D66
 Nelzeva, L. B., 2E29
 Nemes, G., 1B2
 Nemeth-Sallay, M., 3B179
 Nemodruk, A. A., 4B130, 5B148
 Nepimachova, B., 2B67
 Nerenberg, S. T., 1J63
 Neri, P., 1D266, 3J36, 5F32
 Nerin de la Puerta, C., 2A16, 2A17, 2B101, 3A12, 3B51, 4E82
 Nesanelis, M. Z., 1B114
 Nesterenko, P. N., 1B45
 Nesterova, T. A., 6E42
 Nesterova, T. V., 6B97, 6B98
 Nesti, A., 5J133
 Nestrick, T. J., 1H38
 Netravalkar, A. J., 6H22
 Netter, P., 2D44, 3H51
 Netting, A. G., 2D133
 Neubert, G., 5B191
 Neue, U., 4C14, 5C19
 Neukranz, V., 3H16
 Neuman, M. R., 4D141
 Neumann, H., 1E21
 Neumann, H. J., 5C52
 Neumeyer, J. L., 3E17, 6D54
 Neville, M. C., 6D26
 Nevinnaya, L. V., 3H98
 Newall, R. G., 6D13
 Newbery, J. E., 4C41, 4C67
 Newburger, J., 6D94
 Newcombe, J., 3D254
 Newell, R., 1B1
 Newell, S. Y., 2D117
 Newiakova, J., 3B60
 Newman, A. P., 1G13
 Newman, L., 1H20
 Newman, R. A., 6D125
 Newton, C. R., 3D273
 Newton, D. A., 5C93
 Newton, M. W., 4D205
 Nexo, E., 4D302
 Ng, K. C., 1J127, 4B16
 Ng, L. L., 3D55
 Ng, R. H., 3D50
 Ngah, W. S. W., 1B166
 Ng-Kwai-Hang, K. F., 2F25
 Ngo, A., 3D11, 4D9
 Nguyen Phuoc, B. K., 5D126
 Ni, P., 4J133
 Ni, Z., 1B76
 Nice, E. C., 1D192
 Nichol, C. A., 5D190, 6D263
 Nicholas, A. W., 6D179
 Nicholls, A. W., 2J83
 Nicholls, M. G., 2D183
 Nicholls, P. D., 2D17
 Nichols, B., 4D103
 Nichols, H. S., 2E10
 Nicholson, G. J., 4C18
 Nicholson, N., 4J122
 Nicholson, R. I., 1D97
 Nickel, H., 3B154, 3B155, 3B173
 Nicol, K. D., 1H75
 Nicolas, J. C., 2D31
 Nicolson, G. L., 5D92
 Nicot, G., 4D64
 Niebergall, H., 1F13
 Niederwieser, A., 2D303
 Nielsen, E. B., 1F43
 Nielsen, F., 1D186
 Nielsen, J. A., 3D205
 Nielsen, M. D., 1D186
 Nielsen, P., 5D194
 Nielsen, T., 4C36
 Nieman, T. A., 6A21
 Niemann, G. J., 3D265
 Nieminen, E. H., 3H38
 Nienhuis, J., 4E81
 Nieschmidt, E. B., 2B81, 2J160
 Niese, S., 4B100
 Niese, U., 4B100
 Niessner, R., 1H10
 Nieuweboer, B., 4D67
 Nieuwenhuis, J. J., 3D31
 Nigam, P. C., 6C26
 Nigota, K., 6F31
 Nihei, Y., 6J111
 Nijima, K., 2D302
 Niinisto, L., 3D45, 4A1
 Niinuma, Y., 2D262, 3D136
 Niijima, I., 3F54
 Niijama, K., 1B172
 Nikelly, J. G., 2J16, 5J44
 Nikiforov, A., 3F38
 Nikiforova, L. N., 3H76
 Nikitin, Yu. E., 4B195, 4E26, 5B159
 Nikitina, I. E., 4B79
 Niklasson, F., 1D232
 Nikolaenko, O. K., 2A9
 Nikolaeva, G. A., 1B201
 Nikolaeva, L. G., 3B95
 Nikolelis, D. P., 4D220, 6J157
 Nikolich, K. I., 2E57
 Nikolov, Z. L., 1C25
 Nikol'skaya, E. B., 3D299
 Nikol'skaya, G. S., 5H4
 Nikonova, N. P., 2C41
 Nilsson, C. A., 3H28
 Nilsson, J., 1D12
 Nimara, A., 1B2
 Nippoldt, M. A., 4J92
 Nishi, K., 2D224
 Nishida, M., 6D203
 Nishiguchi, T., 2B122
 Nishihara, K., 6D72
 Nishijima, O., 6G34, 6G36, 6G37
 Nishikawa, K., 4H80
 Nishikawa, Yasuharu, 1B90, 1H45, 2E44, 4H80
 Nishikawa, Yuji, 4D154
 Nishikaze, O., 2D243
 Nishimura, K., 3F52
 Nishimura, Masakichi, 2H87
 Nishimura, Masanobu, 4B121
 Nishimura, N., 1D259
 Nishimura, S., 1B38
 Nishioka, Y., 2D232
 Nishitani, T., 4D231
 Nishiyama, N., 4C30
 Nissim, I., 5D142
 Nistrup Holmegaard, S., 2D270
 Nitsche, V., 5D70
 Niu-Fan, G., 5D94
 Nivikov, Yu. P., 3G17
 Niwa, H., 2E14
 Niwaguchi, T., 1D77
 Niz'eva, N. V., 3B30
 Noble, R. W., 3C65
 Noekert, M., 1C100
 Noda, K., 5F49
 Noda, N., 2C96, 2C97, 4F14
 Noda, T., 3J103
 Noel, S. F., 2C65
 Noel, S. P., 4D169
 Noga, G., 3F39
 Noguchi, H., 2B112
 Noguchi, M., 2E19
 Noguchi, Takuro, 6D89
 Noguchi, Tamao, 3F28
 Nohara, M., 1H66
 Nohl, A., 6J56
 Nohta, H., 1D257
 Noirfalise, A., 3F17, 6D76
 Noji, M., 2D305, 2E61
 Nojiri, T., 1G11
 Nojiri, Y., 6G7
 Nolan, A. L., 4F1
 Noma, M., 3G27
 Nomeir, A. A., 1E46
 Nomura, H., 2B143
 Nomura, M., 5B111
 Nomura, T., 4B153, 4B160
 Nony, C. R., 3D137
 Noonan, I. A., 5D38
 Noordhoek, J., 3D68
 Noordsij, A., 2H77
 Nord, L., 1B11
 Nordmann, Y., 5D200
 Nordmeyer, F. R., 2J43
 Nordstrom, F., 2E25
 Norheim, G., 6D41
 Normansell, D. E., 2D246
 Norris, K. H., 1F40, 1G7
 Norris, T., 2J96, 5J107
 Northcutt, K. J., 3B178
 Northcutt, R., 6A23
 Northington, D. J., 1C2
 Norton, R. B., 6H13
 Norwitz, G., 1C43
 Nose, T., 4D24
 Nosolyuk, G. N., 3C105
 Noszticzus, E., 2B135
 Noszticzus, Z., 2B135
 Nota, G., 6B86
 Notario, A., 2D219
 Nouaille, Y., 4D64
 Novak, I., 1D57
 Novak, Josef, 2B67
 Novak, Josef P., 1J69, 3F37, 6J14
 Novak, R., 3D247
 Novak, T., 3F40
 Novak, V. P., 3A8
 Novikov, A. I., 5B46
 Novikova, G. K., 4B86
 Novikova, V. F., 1C62
 Novokhatka, D. A., 5C41
 Novoselova, L. M., 6B115
 Novosel-Radovic, V., 2J84
 Novotny, M., 1J32, 5J28
 Novotny, M. V., 5C43
 Novotorova, L. G., 6C13
 Novozamsky, I., 4D22
 Nowak, A., 4J26
 Nowak, R. J., 2J165
 Nowak-Ossorio, M., 1C99
 Nowicka, K., 5H42
 Nowicki, J., 1C127
 Nowicki, W., 6B58
 Nowikow, I., 2H51
 Nozaki, T., 4B14
 Nuhn, P., 3G30
 Numerova, Z. I., 6B144
 Nunez-Vergara, L. J., 1E33, 1E34, 4E16
 Nurmatov, I., 5B6
 Nutt, A., 1H41
 Nygren, O., 3F34
 Nyquist, R. A., 3C42
 Nyren, P., 1D279
 Oakes, A. R., 5B174
 Oakley, D. M., 3J160
 Oates, M. D. G., 4D65
 Ober, R. E., 1D88, 3D60, 3D114
 Oberleas, D., 5F27
 Obert, G., 5D161
 Oblad, M., 4H3
 Oblivantsev, A. N., 2B118
 Obori, K., 5B181
 O'Brien, A. P., 1H89
 O'Brien, J. E., 1H84
 O'Brien, J. S., 2D122
 O'Brien, W. J., 4D103
 Obtemperanskaya, S. I., 1C10
 Obukhova, T. V., 4E74
 Occhipinti, S., 6C37
 Occolowitz, J. L., 3E21
 Ochotoreno Ramirez, J., 2B17
 O'Connor, D. V., 1J105
 Oda, T. A., 1C123
 Odanaka, Y., 6B114
 Oddie, C. J., 5D62
 Oden, E., 4D63
 Odham, G., 1D119

- Odink, J., 4D191
 Odoerfer, G. A., 2C85
 Odom, J. D., 6J3
 Odom, R. W., 4J80
 O'Donnell, M. D., 3D303
 Odzu, M., 3B130
 Oechsner, H., 3J93, 3J106
 Oehme, G., 2J23
 Oehme, M., 2H34
 Oei, T. O., 3D244
 Oelgart, G., 1J100
 Oellerich, M., 5D33
 Oelschlaeger, H., 4E45, 5E30, 5E33
 Oesch, F., 4D327, 6D284
 Oeschger, H., 4H54
 Oeygard, K., 6F33
 Offarim, M., 2J42
 Ofizorz, P., 3F9
 Ofuji, T., 3D103
 Ogan, K., 5J42
 Ogasawara, K., 6C84
 Ogata, K., 2D55
 Ogawa, A., 3D66
 Ogawa, Naotake, 1C33
 Ogawa, Nobuaki, 4B56
 Ogawa, S., 2F7, 2F8, 2F9
 Ogawa, T., 6C81
 Ogden, C., 1B40
 Ogiyama, Y., 3D189
 Ogiyama, K., 3G27
 Ogren, L., 1B127, 1J15, 1J17
 Ogura, Y., 3D289
 Ogurtsov, N. A., 5C33
 Oh, M. S., 6D33
 Ohara, K., 2F8, 2F9
 Ohara, Y., 2H74
 O'Hare, M. J., 1D192
 Ohashi, H., 6D155
 Ohashi, Shigeo, 1J139
 Ohashi, Shigeru, 1H62
 Ohashi, Sigeru, 2C28
 Ohashi, T., 4B67
 O'Haver, T. C., 2J110, 3J69, 6J83
 Ohba, T., 4F62
 Ohiokehai, O., 1F38
 Ohkoda, T., 2D105
 Ohkuma, T., 4C42
 Ohkura, Y., 1D83, 1D257, 2D254, 3D203, 4D322, 4D323, 6D285
 Ohlin, M., 1D149
 Ohls, K., 1B175
 Ohlsson, S. V., 2C102
 Ohmacht, R., 6J26
 Ohmac, H., 1D43
 Ohman, S., 2D53
 Ohnishi, R., 6J42
 Ohnishi, T., 2D232
 Ohno, N., 1D162, 6C65
 Ohrbach, K. H., 3J153
 Ohsawa, K., 4J132
 Ohshima, H., 2C96, 2C97
 Ohshima, T., 4D328, 6D286
 Ohshita, K., 5B84
 Ohta, A., 4C42
 Ohta, K., 6J86
 Ohta, M., 2E37
 Ohta, Y., 3D25
 Ohtaki, S., 4D248, 4D253
 Ohtsuki, T., 4B170
 Ohtsuru, M., 6F31
 Ohya, K., 3D71
 Ohzeki, K., 4B167
 Oi, N., 1C46, 2J22, 3C22, 5J36, 6J27
 Oie, T., 6D203
 Oikawa, K., 4E37
 Oka, H., 5E22
 Oka, K., 2D61
 Oka, S., 2J67
 Oka, T., 4B214
 Okabe, M., 2E22
 Okada, E., 3D251
 Okada, Tetsushi, 3B100
 Okada, Tetsuo, 6B19
 Okada, Y., 2D232
 Okamoto, J., 3D90
 Okamoto, Makoto, 2B75, 5B111
 Okamoto, Mitsuyoshi, 1J64, 2E19, 2E65, 2J46
 Okamoto, R., 2E22
 Okamoto, Y., 1C65, 3H90
 Okamura, M., 1F9
 Okano, H., 3J103
 Okawa, K., 1H65
 Okazaki, K., 4F8
 Okazaki, M., 6D251
 Okazaki, S., 5H55
 O'Keefe, P. W., 1H84, 2C56, 3C86
 O'Kell, R. T., 3D17
 Okerholm, R. A., 3D115, 6D90
 Okochi, H., 6B155
 Okonkwo, P. O., 3D111
 Okuda, H., 5D227
 Okuda, T., 6D203
 Okui, F., 2C4, 2C5
 Okuno, H., 4F16
 Okuno, K., 2B21
 Okuno, S., 4D313, 4D335
 Okutani, T., 3J103
 Olbrantz, K., 2F20
 Olbrych-Sleszynska, E., 5B16
 Oldenburg, S. J., 1D122
 Oldham, R. G., 1J175
 O'Leary, P. C., 1D166
 O'Leary, T. D., 5D2
 Olenchok, S. A., 3G4
 Olenovich, N. L., 1H63, 3B96
 Olieman, C., 5F47
 Oliferenko, G. L., 4B74
 Oliver, B. G., 1H75
 Oliver, D. W., 5J4
 Oliver, J. R., 1D181
 Olivera Carrion, M., 4F39
 Olivier, C., 3B22
 Oliw, E. H., 3D163
 Oller, W. J., 1C97
 Ollivier, R., 6D153
 O'Loughlin, P. D., 2D143
 Olsanski, V. L., 6F55
 Olsen, C. R., 3H56
 Olsen, I., 6D158
 Olsen, O., 4D206
 Olsen, S. D., 5J129
 Olson, O. E., 4D37
 Olsson, B., 1B127, 1J15, 1J17
 Oluwale, A. F., 2B170
 Omar, M., 1H74
 Omenetto, N., 3B160, 5J133
 Omori, T., 1J64, 2J46
 Omori, Y., 6D85
 Ong, S. T., 3D21
 Oniciu, L., 3J143
 Onishchenko, T. A., 5B23
 Onishchenko, Yu. K., 5B23
 Onishi, H., 1B66, 6B43
 Ono, A., 1C44, 5C38
 Ono, S., 3D66
 Onoe, A., 2H9
 Onoue, Yoshiaki, 4H80
 Onoue, Yoshio, 3F28
 Onstot, J., 6A23
 Onu, P., 6B184
 Onur, A., 5C74
 Onyiriuka, E. C., 1J90, 3D223, 4J104
 Oomens, A. C., 6H27
 Oosterling, R. A. M., 2J100
 Op de Beeck, J., 4J125, 6B53
 Opelianio, L. R., 4D136
 Opferkuch, H. J., 6J101
 Opielewicz, M., 1E43
 Oppenheimer, L., 4A4
 Opsal, R. B., 4C39
 Oranskaya, O. M., 2C17
 Orazio, C. E., 6H54
 Orbanowsky, M. W., 4D78
 Orchard, M. A., 2D149
 Oreans, M., 1J85
 O'Reilly, R., 3D67
 Orelid, F., 5H85
 Orlando, T., 6J68
 Orlov, V. V., 1B74, 2B38
 Orlova, L. N., 2H97
 Orr, E. R., 5D113
 Ors, E., 4D2
 Orsini, F., 3D266
 Orsonneau, J. L., 1D14, 1D255
 Orsulak, P. J., 2D198
 Ortiz, R., 3A11
 Ortiz C, J. L., 2H7
 Ortner, H. M., 3B4, 3G19, 6B1
 Ortuno, J. A., 5B43
 Osadchii, L. T., 3B96
 Osaki, S., 2B125
 Osaki, T., 2B125
 Osawa, T., 6J12
 Osberg, I. M., 3D148
 Osborne, B. G., 1F18
 Osborne, R. V., 2H8
 Osborne, V. L., 1D84
 Osetinskii, G. M., 3J66
 O'Shannessy, D. J., 2D178
 Oshemkov, S. V., 6J8
 Oshima, M., 4H50
 Oshima, R., 5C15
 Oshima, Y., 5F9, 5F39
 Oshin, O., 2B170
 Os'kina, V. N., 1D112
 Osman, S. F., 5F55
 Osmanov, R. R., 4H4
 Ostapenko, N. S., 6J135
 Osterloh, J., 1D51, 6D141
 Osteryoung, J., 4B154
 Osteryoung, R. A., 4B154
 Ostgaard, K., 5H90
 Ostroumova, G. A., 2H97
 Ostrovskii, D. I., 2D216
 O'Sullivan, F., 2D218
 Ota, K., 5D223
 Otake, T., 2D102
 Otieno, D. A., 1G40
 Otomo, M., 3H70, 4B175
 Ototani, N., 3D154
 Otstavnov, P. S., 5B33
 Otsuka, Hajime, 4A7
 Otsuka, Hideaki, 3D196
 Otsuka, M., 1F8
 Otsuki, A., 2D50
 Otsuki, T., 1B168
 Ottaway, J. M., 1D40, 1D41, 2J110, 4J85, 6J95
 Otto, M., 4B124, 4B125, 4B191, 4D207, 6A11, 6J38
 Ou, Q.-Y., 2J69
 Ou, T., 1B173
 Ouchi, K., 4B98
 Oura, T., 5B181
 Ouyang, B., 4C26
 Ovodov, Yu. S., 2D127
 Ovsyannikova, T. V., 1H52
 Owada, E., 2D75
 Owada, K., 4F8
 Owari, M., 6J111
 Owen, J. F., 5B154
 Owen, M. E., 5G35
 Owen-Fett, C., 2D177
 Owens, S. M., 4D77
 Oxby, C. B., 5D13, 6D20
 Oxenham, D. J., 1G14
 Oxford, J., 1D86
 Oya, M., 3D140
 Oyabu, T., 6J12
 Oyanagi, H., 5J98
 Oza, B. N., 4B188
 Ozaki, K., 1H79, 1H82
 Ozaki, T., 1B160
 Ozaki, Y., 1D200, 2D195
 Ozand, P. T., 1D278
 Ozasa, Y., 2H86
 Ozawa, A., 4D161
 Ozturk, M., 1D260
 Paal, T., 3E16
 Paal, T. L., 4C17
 Pacakova, V., 4D291, 6C33, 6J37
 Pacer, R. A., 6B17
 Pachecka, E., 2E43
 Pachla, L. A., 4J18
 Pacholec, F., 5J76
 Padee, L. K., 2B151
 Padieu, P., 4D240
 Padki, M. M., 4E3
 Padmanabhan, L., 2D193
 Padmanabhan, P. K., 3B47, 3H48
 Padrini, R., 6D109
 Paganuzzi, V., 4F74
 Page, A. G., 5B87
 Page, B. D., 5F75
 Page, D. J., 6J162
 Page, F. M., 2J147, 2J148, 2J149
 Pagenkopf, G. K., 3J37, 6B10
 Paglialunga, S., 6D134
 Pagura, C., 1J169
 Pahuja, S. L., 2D304, 5D226
 Pai, S. A., 1B18
 Paic, A., 1B96
 Paic, G., 1B96
 Painter, P. C., 5D32
 Pakalns, P., 3B127
 Pal, A. K., 4B145
 Pal, N., 6B108
 Palace, G., 6D127
 Palacios, F., 1H2
 Palacios Corvillo, M. A., 3B151
 Palacios Gonzalez, J. L., 3B132
 Paladino, R., 1D59, 2H33
 Palfreyman, M. G., 1D155
 Palibroda, N., 6C63
 Palin, A. T., 5H82
 Pallante, S. L., 2D68
 Palleschi, G., 1D15, 2J175, 3D208
 Palm, R., 3D34
 Palma, A., 1B30
 Palmer, I. S., 4D37
 Palmer, J. L., 3D269
 Palmisano, F., 2H13
 Pal'nikova, T. I., 4B35
 Palsky, A., 5B40
 Pan, C., 3C24
 Pan, D., 1E69
 Pan, F., 4D338
 Pan, Jiangang, 1B177
 Pan, Jincheng, 1D35
 Pan, S., 6C9
 Pan, S.-S., 6E30
 Panaiotova, M., 1A3
 Panda, S. P., 1B7
 Pandey, B. D., 5B122
 Pandit, U. R., 4E4
 Pandita, K., 4B5
 Pandya, G. H., 4H56
 Pangarova, T., 6E15
 Pangborn, R. M., 4F54
 Pani, S. S., 3B136, 4B171, 4B172, 4B173, 4B174, 4B208
 Panico, M., 3J120
 Panicucci, M., 5D36
 Pankova, M., 4C56
 Pannall, P. R., 4D151
 Pannell, L. K., 4D112
 Pantarotto, C., 6D134
 Panteghini, M., 4D273
 Panteleev, N. P., 5G24
 Panteleev, V. V., 3J79
 Panteleeva, E. Yu., 4B128
 Paoli, C., 1D266
 Paolini, F. A., 2D219
 Paolo, M., 4H23
 Papadopoulos-Mourkidou, E., 6G38
 Papale, U., 6B86
 Papanastasiou-Diamandi, A., 6D160
 Papas, A. N., 3E54
 Papastathopoulos, D. S., 6D146
 Papazova, P., 1E37
 Papeschi, G., 6E7
 Papez, V., 2B78
 Papina, T. S., 2B177
 Papizhenko, I. I., 3B148
 Papp, E., 5C39
 Paraira, M., 3C21
 Parczewski, A., 2A7, 4A23
 Pardo, R., 5B59
 Pardoe, I. U., 4D260
 Pardue, H. L., 5J105
 Parenti, C., 5F18
 Parfenova, L. I., 6E31
 Parfitt, R. T., 4E27
 Parichkova, R., 5J109, 6A10

- Park, G. B., 5D67, 6D127
 Park, S. A., 1C6
 Parker, C. E., 1C126, 3J34, 4G15
 Parker, D., 1C11
 Parker, G. A., 5C13
 Parker, K. M., 6D23
 Parker, P. H., 2D42
 Parker, W. C., 6B18
 Parman, A. U., 2E35, 2E36
 Parodi, A. J., 6D182
 Parolari, G., 1F20
 Parrish, C. C., 6D174
 Parrish, M. E., 6D11
 Parrott, K. A., 6E49
 Parry, E. A., 1D17
 Parry, S. J., 3B167
 Parthasarathy, R., 6B103
 Partington, S., 5D166
 Partis, M. D., 5C40
 Parus, S. J., 4J142
 Parviainen, M. T., 6D246
 Parvy, P. R., 2D217, 4D210
 Paryczak, T., 2C118
 Pasciak, J., 2C114, 4C12
 Paskhina, S. I., 4B79
 Paskonova, E. A., 4D208
 Pasquini, C., 6B131
 Passi, S., 2D186
 Pastorelli, L., 6C41
 Pastorello, L., 1D59, 2H33
 Pasztor, T., 1A118, 1A19, 1B120
 Patel, A., 3D277, 5D162
 Patel, B. M., 5B88
 Patel, C. P., 6D110
 Patel, K. S., 2B131
 Patel, M., 1B194
 Patel, N. J., 1D98
 Patel, R. B., 3E49
 Patel, S., 2D128
 Patel, V. C., 3E49
 Paterson, M., 5J69
 Paterson, N., 6D95
 Pathak, V. N., 4E72
 Patil, S. K., 5B86, 5B92
 Patkin, A. J., 2J79
 Patni, P. M., 1B7
 Patrati, A. P., 3F10
 Patriarche, G. J., 6F1
 Patrick, J. W., 3C87
 Patte, F., 1J82
 Patten, L. L., 3B165
 Patterson, C. S., 5B154
 Patterson, P. L., 1J88
 Patton, C. J., 5D91
 Paturel, L., 4H78
 Pau, B., 2D31
 Paul, D. W., 2J183
 Paul, I. B., 4J146
 Paul, J. H., 1H85
 Paul, K. K., 2F39
 Paule, R. C., 2A8
 Paulik, F., 1B190
 Paulik, J., 1B190
 Pauls, R. E., 1H31
 Paulsen, R., 4D128
 Paulus, C. D. A., 1H90
 Pavel, J., 1J98
 Paviolo, M. L., 5D27
 Pavlinskii, G. V., 2J91
 Pavlova, O. K., 1B70
 Pavlova, V. K., 3B33
 Pawelczyk, E., 3E26
 Payne, A. W., 3C118
 Payne, R. B., 3D33
 Pays, M., 6D115, 6D176
 Payton, M. A., 5D101
 Pazderskii, Yu. A., 6B88
 Pazzi, P., 2D59
 Pchelkin, V. A., 3G17
 Peadar, P. A., 5C82
 Peake, M. J., 1D13, 6D281
 Pearce, B. A., 6J71
 Pearce, J. E., 4E83
 Pearson, D., 5D13, 6D20
 Pearson, J. D., 1D230, 3J20
 Pearson, K. H., 4D134
 Peart, D. B., 6A13
 Pearton, D. C. G., 3A26
 Peat, M. A., 2D199, 4D71
 Pechanek, U., 4F9
 Pechova, H., 1C31
 Pecka, K., 4J28
 Pedersen, C. T., 2D227
 Pedersen, W. B., 5G4
 Pedraz, J. L., 4D104
 Peel, H. W., 3D56
 Peeters, J. J., 6J121
 Pei, P., 4C53
 Peiffer, G., 4J30
 Peinhardt, G., 2E69
 Peisach, M., 3B22
 Pejajovic, M., 6D281
 Pekari, K., 4D275
 Pelchat, J. C., 1B131
 Pelizzoni, F., 3D266
 Pellegrino, G., 6H67
 Pellerin, F., 4D182
 Pelletier, O., 2D110
 Pellicano, R., 4D277
 Pelly, I., 1B119
 Penafiel, R., 1D160
 Pena Heras, A., 5G29
 Penberthy, L. A., 3D243, 6D281
 Penca, M., 1A29
 Penczek, P. A., 3C63
 Pendyala, L., 2D97
 Peng, C., 4J12
 Peng, G. W., 6E32
 Peng, Y.-M., 5D174
 Penney, B. A., 3J82
 Pennycook, S. J., 2J80
 Peperstraete, H. J., 6H14
 Pepin, O., 1D193
 Pepper, D. S., 3D155
 Peral-Fernandez, J. L., 4B83
 Perbellini, L., 5D83
 Perel, J., 3J58, 4J112
 Peral-Fernandez, J. L., 2B46
 Perel'son, M. E., 5E17, 6D157
 Perenich, T. A., 2C98
 Peresypkina, G. D., 6C88
 Perevozchikova, G. G., 5E1
 Perez, R. L., 2G21, 4G22, 5G27, 5G33, 5G36
 Perez, S. S., 2F33, 3F27
 Perez-Ayuso, R. M., 6D221
 Perez-Bendito, D., 1B26, 1F5, 4B163
 Perez Bendito, M., 1A10
 Perez-Bustamante de Monasterio, J. A., 4B20, 5F66, 5F69, 5H80
 Perez-Bustamante de Monasterio, J. A., 3F50
 Perez-Conde, C., 1D29
 Perez-Ruiz, T., 2B17, 3B41, 5B41, 5B43
 Perez Trujillo, J. P., 2B155
 Perignon, J. L., 6D289
 Peris Martinez, V., 5B97
 Perkins, E. G., 2G7
 Perkins, S. L., 1D36, 1D37
 Per'kov, I. G., 1B162
 Perkowski, E., 1D67
 Perloff, W., 2D57
 Perlstein, P., 5C86
 Perone, S. P., 2J180, 4C33, 4C34, 4J142
 Perret, B. A., 5D160
 Perret, D., 4D189
 Perrett, D., 1D231
 Perrier, J. H., 4D180
 Perrin, D. R., 5H62
 Perry, B. W., 2D259
 Perry, D. J., 4D252
 Perry, G. J., 5C63, 5C64
 Perry, J. F., 4D250, 4D251
 Perry, S. G., 1H90
 Persiani, C., 1B41
 Perskii, E. E., 5D138
 Persohn, M., 5B90
 Person, W. B., 2J156B
 Persson, B. A., 4D100
 Persson, B. R. R., 1H11
 Persson, J. A., 4H83, 6A17
 Pesce, M. A., 3D297
 Pesch, R., 3J30
 Peshekhonov, V. D., 2J93
 Peshkova, V. M., 2B165
 Peskova, E., 3B58
 Pesliakene, M., 6J151
 Petek, M., 6D189
 Peterkova, M., 6E26, 6E53
 Peters, R. J., 5H62
 Peters, T. J., 3D170
 Petersen, W. A., 4J80
 Peterson, A. P., 2D160
 Peterson, D. P., 3C42
 Peterson, David W., 3A25, 3J99
 Peterson, David William, 5B27
 Peterson, J. L., 2D111
 Peterson, L. R., 1D56
 Pettersson, L. R., 2D35
 Pettersson, M., 4J135
 Petracci, D. E., 5H79
 Petrak, D., 3J158
 Petrenko, V. V., 2E42, 6E56
 Petri, J. M., 2C60
 Petrick, T. R., 3B6
 Petrie, C. R., III, 5D211
 Petrie, R. K., 1B189
 Petrikova, M. N., 2B156
 Petroff, N., 1C78
 Petrosyan, R. A., 3C35
 Petrov, B. I., 3B42, 4B93
 Petrov, I., 1G15
 Petrov, S., 1B104
 Petrova, L. G., 2B148
 Petrova, N. I., 2B180
 Petrova, V., 6C16
 Petrova, V. A., 2B29
 Petrova, V. I., 6D190
 Petrova, V. P., 5A21
 Petrova, Z. M., 6J135
 Petrovskaya, N. A., 1C8
 Petrucci, E., 2D219
 Petrukhin, O. M., 3B38, 3J134, 4B195, 5B159
 Pettersson, A., 3D225
 Pettersson, C., 1E63
 Pettersson, K., 2D255
 Pettinati, J. D., 5F33
 Petty, J. D., 5H94
 Petty, R., 4H86
 Petuchowski, S. J., 5J9
 Petuely, F., 1F6, 4F33, 6F6
 Petukh, M. L., 3J78
 Petz, M., 5F42
 Petzinger, G., 5F19
 Pfannhauser, W., 4F9
 Pfannkoch, E., 3D234
 Pfeifer, P. A., 6H71
 Pfeifer, R., 1D171
 Pfeiffer, C. D., 4C21, 5C23
 Pfeiffer, E. F., 2D107
 Pfendt, L. B., 6B138
 Pfenniger, H. B., 2F44, 6F59, 6F67
 Pfister, G., 5H3
 Pfleger, K., 3D91, 4D94
 Pfundstein, P., 5B132
 Phan-Dinh-Tuy, F., 1D261
 Pharis, R. P., 3G27
 Phelps, B. H., 4D99
 Phillips, S. R., 1D156
 Phillips, C. R., 1H12
 Phillips, C. S. G., 5J81
 Phillips, David, 1J105
 Phillips, Deborah, 5D87
 Phillips, F. C., 1D128
 Phillips, G. R., 6A15
 Phillips, H. A., 1C82
 Phillips, J. G., 5F33
 Phillips, J. H., 6H72
 Phillips, J. R., 3B81
 Phillips, L. R., 5D148
 Phillips, M., 1J144
 Phillips, M. F., 3H35
 Phillips, R. D., 4F10
 Phillips, T. D., 5F36
 Philipson, J. D., 4E9
 Phipps, J. A., 3D86
 Phizackerley, P. J. R., 5D21
 Phizackerley, R. P., 5J98
 Phu-Lich, N., 6E41
 Phull, M., 6C26
 Piatek, K., 4B42
 Pibarot, J. C., 4D132
 Picard, J., 1F28
 Picart, D., 6D153
 Piccardi, G., 3B128, 6H8
 Piccini, J. L., 2F33
 Pichl, I., 1B115
 Pichler, P., 4D267
 Pichuzhkin, V. I., 5C20
 Pickering, M. J., 6D207
 Pickford, C. J., 4B114
 Pickston, L., 3D18
 Pieciewicz, J. F., 3H23
 Piechaczek, R., 1F15
 Pienaar, H. S., 3B22
 Piepmeyer, E. H., 6J96, 6J100
 Pierini, N., 5D36
 Pierre, J., 6C80
 Pieters, H. J., 6J89
 Pietrantonio, T., 2D99
 Pietrasanta, Y., 4H71
 Pietrogrande, A., 3C8, 6C8
 Pietrogrande, M. C., 5G30
 Pietrzyk, D. J., 2H59, 6C36
 Pietsch, B., 3B50
 Pietta, P., 5D97
 Pijnburg, A., 5E21
 Pikala, M., 1E19
 Pilipenko, A. T., 1E71, 3B33, 3B150, 3D32, 4B63, 5A6
 Pilipenko, L. A., 5A6
 Pillai, G. K., 6D111
 Pillar, F., 1D280
 Pillinger, C. T., 4B105, 4J106
 Pilon, J. C., 6F32
 Pimenov, V. G., 6B98
 Pimpl, M., 3B83
 Pindur, U., 4E5, 6E4
 Pineau, A., 6D18
 Pineda, C. A., 3B22
 Pinedo, H. M., 6D124
 Pinet, A. M., 5D27
 Ping, L., 4D40
 Pingoud, A., 5D184
 Pingoud, V., 5D149
 Pinilla, J. M., 1B124
 Pinkston, J. D., 3J124
 Pinnick, C. L., 5D212
 Pino, J. A., 2F42, 2F43
 Pinto, C. L. R., 2B42
 Pinzauti, S., 6E7
 Piotrowska, H., 4C76
 Piovetti, L., 4G9
 Piredra, S., 5D48
 Piringer, O., 6F17
 Piri, F. M., 3G35
 Piri, R., 3G35
 Pirisino, J. F., 6F38
 Pirushka, I., 3A14
 Pirutko, M. M., 3B102
 Pisney, J. J., 2C80
 Pistelka, M., 3B75
 Pitre, K. S., 1B84, 2B68, 5B77
 Pitt, C. G., 4D70
 Pitt, M. J., 5J79
 Pittinger, S., 4J93
 Plagemann, P. G. W., 1D115
 Plaksienko, I. L., 2B137
 Plant, A. G., 5B176
 Plantner, J. J., 5D175
 Plantz, P. E., 4F2
 Playne, M. J., 3D146
 Plaza, S., 2C46
 Plese, C., 2D277
 Plesinska, M., 2B41
 Plevin, I. V., 4A27
 Plischke, W., 2D25, 2D107
 Pliska, K., 3B58
 Pliss, A. Z., 6J78
 Plomp, T. A., 1D61, 5D63
 Plotczyk, L. L., 3E6
 Plotnikov, R. N., 6J76
 Plotskova, M., 4D108
 Plucinska, W., 4B215
 Pnev, V. V., 1B146
 Pochini, C. M., 3C121
 Podolak, M., 6J37
 Podvolotskaya, M. D., 1E13
 Podzimek, I., 5B89
 Poessneck, R. S., 1B163

- Poetter, H., 3D126
 Poey, J., 1D70
 Pognat, J. F., 3D109
 Pogodina, L. I., 6E11
 Pogonin, V. I., 2B71
 Pohlig, V., 2C109
 Pohloudek-Fabini, R., 2E8
 Pokorska, Z., 3C52
 Pokrajac, M., 4D58
 Pola, W., 6D83
 Polacek, M., 3F13
 Polak, J., 3H81
 Polezhaeva, L. V., 1B165
 Polikarpova, N. V., 4B128
 Poljakova, K., 1B169, 2B149
 Pollach, G., 2F16, 4F19
 Pollack, S. E., 1D269
 Pollard, D. R., 5D169
 Polley, C. W., jun., 4J110
 Polnaszek, C. F., 5D47
 Poluboyarov, V. A., 3C72
 Poluektov, N. S., 2B65, 3B55, 3H49
 Polupanova, L. I., 5B175
 Polyakov, Yu. N., 5B117
 Polygalova, E. V., 3C7
 Pomazanov, V. V., 1J45
 Pomazanova, T., 2E51
 Pomerleau, O., 5D87
 Pomorska, K., 4H28
 Pompei, R. M., 5D55
 Ponchon, J. L., 5B40
 Pond, D. M., 2B167
 Pond, S. M., 6D141
 Ponomarenko, A. A., 1C8
 Ponomarev, V. D., 4E54
 Ponsold, B., 6H17
 Pooch, H., 1C66
 Poole, C. F., 2E52, 2J50, 5J76
 Poole, J. W., 4E2
 Popescu, M., 3C58
 Popescu, V., 6C38, 6C85
 Popik, V. P., 3B71
 Popkov, V. A., 6E2
 Popl, M., 1H83
 Popov, A. N., 2J93
 Popov, N., 3D249
 Popov, V. V., 2H14
 Popova, E., 3B40
 Popova, I., 2F41
 Popova, M. I., 1B152, 1B156
 Popowska-Weigl, Z., 3C66
 Poppe, H., 1A8, 1J10, 1J14, 3J51
 Poppe, W., 4D131
 Pore, J., 2C93
 Porri, M., 2F34
 Porsch, B., 2C23
 Porstmann, B., 3D15, 6D250
 Porstmann, T., 3D15, 6D250
 Porter, N. A., 6D179
 Porter, R. M., 2J19
 Porter, S. E., 1D52
 Poryadina, M. L., 3B37
 Posch, W., 4C40
 Posner, G. H., 5D86
 Pospisilova, B., 2E24
 Postel, W., 4J57, 6F62
 Postnova, I. V., 3B153, 5B142
 Potanina, L. V., 3B45
 Potenzzone, R., jun., 6A1
 Potezny, N., 2D143
 Potier, M., 4D262
 Potter, J. W., 1G37
 Potter, N. M., 5C91
 Pouchert, C. J., 4J118B
 Poulik, M. D., 4D252
 Pound, S. M., 2D178
 Pourfarzaneh, M., 1D64
 Povet'eva, Z. N., 4E42
 Powell, C. J., 3A1, 4B2
 Powell, H. K. J., 3A17
 Powell, S. J., 2J1
 Powell, W. S., 3D164
 Poy, F., 1J70
 Praat, A. J. J., 1H78, 3C60
 Pracejus, H., 2J23
 Pradeau, D., 4E86
 Pradhan, T. K., 4D124
 Prakash, A., 4E72
 Prakash, C., 3D150
 Prakash, O., 2C58, 4B197
 Prasad, A. R. K. V., 4B32
 Prasad, C. V. C., 5C75
 Prasad, R. N., 4D115
 Prasad, V. K., 1E73
 Pratt, J. C., 4B104
 Pratt, K. W., jun., 5J13
 Pravdivaya, A. I., 1B54
 Predieri, G., 5C28
 Preier, H., 6J11
 Preininger, V., 1C124
 Preiss, I. L., 5D9
 Prejmereanu, I., 3C95
 Premadas, A., 3J42
 Premavathi, N., 4B57
 Premuzic, E. T., 6J68
 Prendez, B. M. M., 6H7
 Prenen, J. A. C., 1D122
 Prescher, D., 6C12
 Prescott, S. R., 6H72
 Presentini, R., 3J36
 Pressely, T., 1C2
 Preston, J. R., 2D101
 Pretorius, V., 1J87, 2J53, 2J60, 4J65, 5J81
 Preuss, A., 2F11
 Prey, T., 2D280, 3F11
 Pribela, A., 1F36
 Pribil, R., 2B182B
 Pribytkov, V. A., 3C105
 Price, C. P., 1D194, 1D267, 2D82
 Price, D. A., 2D251
 Price, E. M., 3E69
 Price, M. L., 1D218
 Prichard, H. M., 1B28
 Priddis, C. R., 5G22
 Priddle, J. D., 2D228
 Priest, C. J., 1D248
 Priestman, D., 4D329
 Prihoda, J., 3B98
 Prikrilova, V., 2E62
 Prinz, E., 1B2
 Prins, M., 1D18
 Prinsloo, S. M., 5G25
 Priolkar, S. R. S., 1E64, 3E57, 4E60
 Prior, G., 4D255
 Pritchard, C. A., 4J3
 Pritchett, E. L. C., 3D108
 Privalova, N. V., 3B114
 Privett, O. S., 1D128
 Proctor, C. J., 1J171
 Prodi, V., 1H6
 Prokes, B., 3C10, 3C11
 Prokhorova, L. P., 3C59
 Prokof'ev, O. N., 1G2
 Prokopek, D., 2F27
 Prokopova, I., 3C38
 Prokopp, S., 3D188
 Proksa, B., 1E19
 Prome, D., 1D139, 2D171
 Prome, J. C., 1D139, 2D171
 Pronk, H. F., 5A23
 Prosek, M., 1J65
 Proskuryakova, L. G., 6C62
 Prostakov, N. S., 2C18
 Protiva, J., 6D67
 Provder, T., 4C85
 Prudnikov, E. D., 1J110
 Prusik, Z., 4D235
 Pruszkowska, E., 2H52, 3D36, 4D33, 6B99, 6H45, 6J90
 Pryor, M. A., 5D228
 Przeszlakowski, S., 6A19, 6B21
 Przyborowska, M., 2E63, 6J50
 Przyborowski, L., 2E63
 Przybyla, B., 2C114, 4C12
 Przybylski, M., 2D226
 Przyjazny, A., 6H3
 Psaltis, P., 4D97
 Psaltys, S. A., 5H37
 Psarrou, E., 4D311
 Ptushkina, M. N., 5B134
 Puacz, J., 6B126
 Puacz, W., 6B126
 Pugh, K. B., 2H39
 Puig, P., 1D70
 Puizillout, J. J., 5D131
 Pujade-Renaud, J. M., 1B55
 Puko, R. A., 4B162
 Pullarao, Y., 4E57
 Puma, B. J., 6C31
 Pungor, E., 1C118, 1E5, 3J137, 3J139, 3J151, 5B50, 6J127, 6J128, 6J141
 Pupons, A., 1B195
 Purcell, J. M., 5J82
 Purdie, N., 3E41
 Purdy, W. C., 3J21, 5D50, 5J57
 Purev, A., 3J66
 Puri, B. K., 1B57, 1B151, 1B171, 1B183, 3B9, 4B37, 4B132, 4B138, 4B189
 Puricel, E., 6C63
 Purohit, P., 5B88
 Pushkareva, A. P., 4E18
 Pushkareva, T. M., 5H78
 Puskar, M. A., 4H70
 Putilin, F. N., 4H4
 Putnins, J., 5B183
 Putrenko, O. I., 2J106
 Puttemans, F., 5B116
 Puttemans, M. L., 5F30, 6E25
 Puttins, U., 6C47, 6C48
 Putz, Z., 6D67
 Putzig, C. L., 3C42
 Puzbaum, H., 3H17
 Puzanowska-Tarasiewicz, H., 3E46, 6B136
 Pyatnitskii, I. V., 1B42, 1B88, 2B32, 3B7, 3B25, 4B43, 5B23, 5B47
 Pyen, G. S., 5H83
 Pyler, R. E., 1F48
 Pysher, T. J., 6D23
 Pyysalo, H., 5G34, 6D140
 Qadri, S. B., 2J87
 Qi, D., 1H60, 4A9, 4B194
 Qian, T., 3A7, 4A6
 Qian, Z., 6E16
 Qiang, Z., 6E20
 Qiao, Z., 1E69
 Qin, Z., 6D187
 Qiu, X.-C., 6B105, 6G9, 6G12
 Qiu, Z., 2B33
 Qiu, Z. Y., 5J64
 Qua, S. C., 1D113
 Quade-Henkel, M., 5E3
 Quadro, G., 3D128
 Quaglio, M. P., 5D54
 Quain, D. E., 1F45
 Quan, E. S. K., 2J146
 Quaranta, H. O., 2F33, 3F27
 Que Hee, S. S., 3D142, 4H22
 Queirolo, C., 6D236
 Quejido-Cabezas, A., 4B83
 Quentin, K. E., 6H52
 Quentmeier, A., 3J81
 Qui, X.-C., 5G12, 5H58
 Quick, F. E., 5G23
 Quiero, A., 3B174
 Quinlan, W. T., 4C88
 Quivoron, C., 2C112, 2J37, 2J38
 Qureshi, M., 1B6, 6B110
 Qureshi, M. A., 3B61
 Qureshi, S. A., 5G20
 Qureshi, S. Z., 3C15
 Rabe, E., 5F31
 Racek, J., 6D274
 Rack, E. P., 4D136
 Rackis, J. J., 4G2
 Radaev, V. N., 1B109
 Raddats, M. A., 6D96
 Radding, W., 2D136
 Radecki, A., 1H87
 Radeglia, R., 1C71
 Radell, E. A., 4H19
 Radford, I. R., 1D227
 Radhakrishnamurthy, B., 2D126
 Radhakrishnamurthy, C., 1B149
 Radhamma, M. P., 1A16
 Radhoff, G., 3J153
 Radic, N., 2J166
 Radin, N. S., 3D171
 Radulescu, V., 5G37
 Radus, T. P., 3E77
 Radwanski, B., 3C63
 Radziemski, L. J., 2B36
 Radziuk, B., 5J111
 Ragab, M. T., 3G33
 Raggi, M. A., 1E9, 3E73
 Raghavan, T. N. V., 3B122
 Raghunath, V. M., 3B181
 Raghuraman, K., 5B92
 Raghuveer, S., 4E57
 Rahmani, R., 5D28
 Rahnamai, H., 2J68, 2J187
 Rai, P. P., 4E20
 Rai, S., 5H44
 Raichvarg, D., 4D174
 Raie, M. Y., 6E33
 Rains, T. C., 6J83
 Raisbeck, G. M., 1H16
 Raisys, V. A., 3D267
 Rajatanavian, R., 1D180
 Rajzer, D., 3E52
 Rakel, D. A., 6B79
 Rakhimova, B. V., 3B94
 Rakhman'ko, E. M., 1B67, 1J191, 2J169
 Rakhmatullaev, K., 2B57, 3B94
 Rakovskii, E. E., 1B27
 Ramadan, A., 6B161
 Ramadan, A. A. T., 4B39
 Ramagali, L. S., 6D225
 Ramakrishna, T. V., 2B107, 4B180, 5B138, 6B171
 Ramakrishna, V. V., 5B86
 Ramanujam, V. M. S., 4A16
 Ramappa, P. G., 4B158
 Ramasamy, S. M., 2C57
 Rambabu, G., 3B104
 Rambdaud, P., 1D222
 Rambeck, B., 5D45
 Ramdahl, T., 1C61, 1H37
 Ramesha, C. S., 1D131
 Ramis Ramos, G., 5A29
 Rammell, C. G., 5D193
 Ramos, D. L., 5D185
 Ramsteiner, K. A., 5J30
 Rana, J. B., 2C40
 Rana, S. S., 2D282
 Randa, Z., 6A24
 Randall, L. G., 3J25
 Randi, G., 6H67
 Rando, L. C., 3B134
 Randolph, W. C., 1D84
 Rangamannar, B., 2B60, 2B152, 5B53, 5B73, 5B152, 6B64
 Rangappa, K. S., 6D215
 Rani, S., 3J42
 Rankin, D. A., 1C105
 Rao, A. A. P., 5B152
 Rao, A. K., 5B53
 Rao, A. L. J., 1B110, 5B18
 Rao, A. M. M., 6H22
 Rao, A. V., 4J19
 Rao, B. G., 1E11, 4E69
 Rao, B. S., 3C19
 Rao, B. V., 5B131
 Rao, C. P., 6B65
 Rao, D. M., 4J21
 Rao, D. R., 5B131
 Rao, G. A., 2D154
 Rao, G. A. R., 3B77
 Rao, G. R., 3E66, 4E57
 Rao, G. S., 1B149
 Rao, K. Appa, 4C16
 Rao, K. Ashok, 2B152, 5B152
 Rao, K. N., 5C75
 Rao, L. F., 3J138
 Rao, L. G. S., 2D30
 Rao, M. S. P., 4C16
 Rao, N. S., 4G4
 Rao, N. V., 1D244
 Rao, R. A. K., 2D212, 3B79, 5J65
 Rao, R. R., 3B124
 Rao, S. V. N. B., 5B68
 Rao, T. P., 5B138, 6B171
 Rao, V. K., 6B82
 Rao, V. M., 3H67
 Rao, V. R. S., 2A10, 4H15, 6B42, 6B65
 Raot, K. N., 4B21

- Raoot, S., 4B21
 Rapaka, R. S., 1E73
 Rapaport, M. S., 3B143, 5J99
 Rapp, A., 6J73B
 Raschka, H., 2B92
 Rask-Madsen, J., 4D159
 Rasori, I., 2C93
 Raspopova, S. A., 1C166
 Rasshofer, R., 1D247
 Rastogi, S. K., 4B192
 Rastogi, S. N., 1B154
 Ratajczak, D., 1E16, 4C31
 Ratcliffe, W. A., 3D187
 Rathore, H. S., 2C27, 6J47
 Ratnaraj, N., 4D98
 Rattay, V., 2C45
 Ratzlaff, E. H., 2J125
 Rauber, N., 3E24
 Rauch, P., 6F66
 Raunio, R. P., 3D275
 Rauret, G., 5B168
 Rauschenbach, P., 5D194
 Rauscher, S., 6C20
 Rautavuori, H., 1B199
 Rauter, L., 4D69, 4D157
 Rautschke, R., 5B37, 5H102
 Rauw, G., 5D53
 Rawal, N., 3D62
 Rawat, J. P., 1C17, 6J48
 Ray, M. S., 4J7
 Razinger, M., 1A29
 Rea, D. F., 4H19
 Read, J. I., 2F3
 Reading, C., 6D60
 Rebello, A. de L., 4H55
 Rechnitz, G. A., 1J194, 6J154, 6J155
 Reddersen, G., 3D70
 Reddish, J. F., 6J170
 Reddy, A. S., 2B34, 6B64
 Reddy, B. R., 2B34
 Reddy, B. S., 4E69
 Reddy, D. V., 4B127
 Reddy, M. L., 2B34, 6B64
 Reddy, N. S. R., 4B127
 Reddy, P. C., 5B53, 6B64
 Redmond, J. W., 2C24
 Reed, G. D., 2J17
 Reed, H. L., 5J4
 Reed, J., 4D289
 Reed, J. H., 3D46
 Reena, 1G36
 Reesman, R. H., 2F2
 Reeve, V. C., 4D78
 Reeves, D. S., 5E24
 Reggoug, A., 1B96
 Regiero, A., 5D221
 Regnier, F. E., 1D183, 1D230, 3D234, 3J20, 4D233
 Rehani, S. K., 5B83
 Rehfeld, J. F., 1D198, 4D230
 Rehn, B., 6J174
 Reichard, S. M., 2C105
 Reichert, J. K., 6H53
 Reid, A. D., 4D183
 Reid, T. W., 2D304, 5D226
 Reider, M. C., 4D251
 Reidl, U., 3D84
 Reijenga, J. C., 5J71, 5J72
 Reijn, J. M., 1A8, 1J10
 Reijnders, H. F. R., 4H34
 Reijnders, M. J., 6D126
 Reilly, C. N., 2A13
 Reilly, J. P., 4C39
 Reilly, P. J., 1C25
 Reimann, I. W., 3D111
 Reinbolt, J., 5D146
 Reis, B. F., 1J130
 Reisch, J., 3E43
 Reischl, G., 2J6
 Reiser, M., 3D61, 3D100
 Reisner, H. M., 4D77
 Reiss, J., 2F19
 Rek, Z. U., 5J98
 Reller, L. B., 2D22
 Remane, H., 3C51
 Rimmel, R. P., 4D81
 Remse, K., 4G11
 Ren, S., 6F11
 Ren, Z., 6J2
 Rendl, J., 3H17
 Rengan, K., 1J185
 Renschler, C. L., 4J94
 Rentsch, J., 4B191
 Renvall, S., 1G33
 Renwick, A. G. C., 2D178
 Renyei, M., 6E3
 Renzi, N. L., 3D88
 Renzo, B., 4H23
 Repelewicz, M., 3C18
 Repin, V. A., 3C36
 Repina, L. P., 1C48
 Repta, A. J., 4D120, 4D280, 5D74
 Reschke, A., 1F34
 Reske, S. N., 3D169
 Retter, U., 6J125
 Rettinghaus, G., 2J140
 Reus, E. F., 3A25
 Revenant, M. C., 4D258
 Revillon, A., 2J39
 Revuelta Blanco, D., 1F51
 Revuelto de Ferrari, S. C., 3C62
 Rewkowska, G., 1H87
 Rexova-Benkova, L., 2J44
 Reyes, A., 3D311
 Reymond, A., 4B52
 Reynaud, J., 3D107
 Reynoso, G., 3D285
 Rezak, R., 6H64
 Rhoades, J. W., 2H99
 Rhodes, G., 4C39
 Riabov, D. K., 4D257
 Ricci, G., 3D291
 Ricci, N., 2D59
 Rice, G. S., 5B154
 Rice, M. E., 4D193
 Rich, D. H., 4D333
 Richard, B., 2C121
 Richard, D., 1J49
 Richard, H. M., 4J66
 Richards, D. A., 2D196
 Richards, W. N., 2H38
 Richardson, B. R., 6C89
 Richardson, H. H., 3E41
 Richardson, J. H., 6C59
 Richardson, M. D., 5E41
 Richardson, S. J., 5D215
 Richey, J., 1D190
 Richli, U., 2F40
 Richter, R., 2C116
 Richter, T., 6H47
 Rick, D. L., 1D105
 Rick, W., 1D264
 Ricos, C., 3D3
 Ridder, C., 4D139
 Riddoch, A., 3J109
 Rideout, J. M., 2D261, 2E35, 5D65
 Ridgway, T. H., 2J183, 6J66
 Rieck, I., 5C8
 Riedel, H., 4E56
 Riedel, S., 2J161
 Rieder, H. P., 4D244
 Riedmann, M., 5D45
 Riekstina, D., 5B145
 Riera, J., 1D31
 Riffer, R., 4F20
 Riggan, R. M., 2H101
 Righetti, P. G., 4J57
 Rigot, W. L., 1J185
 Rijks, J. A., 2I59
 Riley, C., 2J11, 3J11, 4D43
 Riley, C. M., 4D120, 4D280, 6D133
 Riley, D. L., 5D106
 Riley, J. K., 1H69
 Riley, W. J., 1D166
 Rimari, T. I., 4B38
 Rimmelin, P., 3H73
 Rinaldi, R., 2H13
 Rinehart, K. L., jun., 1J158, 1J159
 Ring, D. L., 6D23
 Ring, E. J., 4B90
 Ringdahl, B., 4D205
 Ringhand, P., 2H76
 Riolfatti, M., 3H95
 Ripamonti, M., 2D112
 Rippon, J. A., 1C102
 Rips, R., 4D188
 Ripson, P. A. M., 2J114, 5J127
 Risby, T. H., 1C114, 5H14, 6J69
 Riska, G. D., 2J72
 Riss, T. L., 3D250
 Ritchie, A. H., 2F22
 Rittich, B., 6G22
 Rivas Moreno, M., 4F52
 Rivera-Fillat, F., 6D221
 Rivier, L., 2D84
 Riviere, J. C., 6J112
 Rizk, M., 2E60, 6E38
 Rizkalla, E. N., 4B39
 Rizza, V., 5D123
 Robb, D. A., 4D278
 Robb, W. P., 6D81
 Robbe, D., 3H44
 Robberecht, H. J., 1H34, 4D36, 5H75
 Roberge, A. G., 2F4
 Robert, J. C., 5D126
 Robert, P., 3G2
 Robert, R. V. D., 1B188
 Roberts, A. J., 1J105
 Roberts, E. J., 1F14
 Roberts, S. G., 6D96
 Roberts, T. L., 1G12
 Robertson, A. D., 2D122
 Robertson, J. R., 2H104, 6H75
 Robertson, L. W., 3C121
 Robertson, R. T., 6D120
 Robin, J. P., 1J125
 Robin, N. L., 6D181
 Robinson, B., 1J184
 Robinson, C., 2D149
 Robinson, C. A., jun., 4D129
 Robinson, G. A., 6J169
 Robinson, J., 5H60
 Robinson, J. L., 5C57
 Robinson, J. W., 2D48, 2H54, 3D37, 3D38, 5J117
 Robles de Medina, E. O., 5D63
 Roboz, J., 1D54
 Robson, A. M., 1D156
 Rocca, J. L., 1J24, 2J33, 3C31
 Rocci, M. L., 4D86
 Rocha, J. C., 6B131
 Roche, D., 4D174
 Rochon, Y. P., 5D198
 Rockley, M. G., 3E41
 Rocklin, R. D., 1B19
 Rocks, B. F., 2J11, 3J11, 4D43
 Roda, A., 2D188
 Roden, L., 5D235
 Rodgers, A. L., 5D5
 Rodgers, D., 4H2
 Rodgers, G. M., 4D331
 Rodgers, M. O., 1B63
 Rodin, N. N., 6B190
 Rodionova, N. A., 3C99
 Rodriguez, C. F., 3H94
 Rodriguez, F., 4D56
 Rodriguez, L. V., 6D225
 Rodriguez, S. T., 1C4
 Rodriguez-Amaya, D. B., 3F45
 Rodriguez de Viguri, A., 1B124
 Rodriguez-Kabana, R., 1G17
 Rodriguez Roza, R., 1D29
 Roe, A. B., 1H33
 Roebisch, G., 3B162
 Roehle, G., 1D21, 4D172
 Roehrig, P., 6D147
 Roelofsen, A. M., 6J89
 Roemer, J., 3D70
 Roemer, Juergen, 5B90
 Roemstorff, P., 2D227
 Roeraade, J., 4J62
 Roessner, H. U., 1E22
 Roessiger, V., 2B126
 Roessner, B., 6B140
 Roets, E., 3E25
 Rofe, A. M., 2D143
 Rogaschewski, S., 5B191
 Rogatinskaya, S. L., 3J134
 Rogers, D. E. C., 1B170
 Rogers, M. E., 2E20
 Rogin, N. Ya., 4B202
 Rogovskii, D. Yu., 1D53
 Rohm, R. A., 6E37
 Rojas, J., 2B27
 Rojas, R. R., 5C17, 5F26
 Rokos, H., 6D218
 Rokosz, A., 2B41
 Rokushika, S., 2C29, 5J64
 Rollem, H., 6D129
 Rollins, R., 6D237
 Roman, J. M., 2D152
 Roman, R. J., 1D45
 Roman Ceba, M., 1B50, 2B28, 2B140, 4B36, 5A16, 5B164
 Romanenko, L. V., 6H66
 Romanov, N. A., 2H57
 Romanova, G. F., 3B179
 Romanova, L. V., 6B115
 Romanovskaya, G. I., 2B71
 Romanowski, T., 4H26
 Romanska, M., 6B143
 Romkens, F. M. G. M., 6D124
 Rondinini, S., 1J186
 Rong, D., 1E41, 2E28
 Ronkainen, P., 1F49
 Rood, S. B., 3G27
 Rook, H. L., 4J14
 Rooney, L., 6D106
 Roorda, I., 3C31
 Roos, C., 4H94
 Rooselaar, J., 1C95
 Roquet, F., 3D116
 Rosa, R., 1B208
 Rosado, J. L., 3D22, 3D23
 Rosak, C., 2D107
 Rosales, D., 6B174
 Rosales, P. A., 3B174, 6B18
 Rosalki, S. B., 3D304
 Roscoe, R. M., 3J149
 Rose, K., 2D228
 Rose, Keith, 5J142
 Rose, L. M., 2H79
 Rose, M. E., 1C54
 Rosegay, A., 6D120
 Rosenberg, I. E., 6C71
 Rosenblum, M. G., 3D123
 Rosenfelder, G., 3D172
 Rosopulo, A., 5H5
 Ross, D. N., 1J162
 Ross, J. B. A., 2D160
 Ross, M. M., 1H36
 Ross, P. E., 2D190
 Ross, W. D., 6C56
 Rosseel, T. M., 3B178
 Rossell, J. B., 2F63
 Rosseneu, M., 3D263, 3D264
 Rosser, E., 3D176
 Rosset, R., 1J189, 4D182, 5J32, 5J48, 6J36
 Rossetti, D., 4D277
 Rossi, G., 3B160, 5J133
 Rossi-Barnardi, L., 2D112
 Rositter, M., 3J26
 Rosomando, E. F., 5D187
 Roth, J., 1E73
 Roth, M., 6B5
 Roth, Michael, 6J14
 Roth, W., 4D48
 Rothberg, M., 1H4
 Rothchild, R., 2J54, 6E36
 Rothstein, D., 2C14
 Rotin, V. A., 1J89
 Rouanet, J. P., 4E68
 Roughan, J. A., 5F50
 Roughan, P. A., 5F50
 Roumeliotis, P., 1D173
 Rounbehler, D. P., 1C34, 6F65
 Roushdi, M., 6F21
 Roussel, J., 1D139
 Rouzaud, P., 4D56
 Rovei, V., 6D93
 Rovida, E., 2D112
 Rowe, B. C., 5J96
 Rowell, F. J., 1D64
 Rowland, A. P., 3G13
 Rowland, E., 1D87
 Rowland, M., 5E25
 Rowland, S. J., 5D93
 Roy, J. C., 3H43
 Roy, T. N., 4J146

- Roycroft, J. H., 4D307
 Royer, G. P., 1D233
 Rozantsev, V. A., 3J79
 Rozynov, B. V., 3C55
 Ru, N., 2B62
 Rubach, K., 3F9
 Rubasheva, L. M., 4E28
 Rubel, S., 2H95
 Ruberte, L., 2A16, 2A17, 4E82
 Rubi, S., 2B159
 Rubio, D., 3J62
 Rubio, R., 5B168
 Rubio, S., 2B116
 Rubio-Barroso, S., 2B5, 2B6
 Rubitschun, C., 5H69
 Rubtsova, T. A., 1C117
 Rucci, A. O., 3C62
 Ruch, J. V., 4D145
 Ruck, W., 6H69
 Rudakov, E. S., 4C32
 Rudakov, V. V., 3D299
 Rudakova, R. I., 4C32
 Rudel, L. L., 2D256
 Rudenko, B. A., 5C54
 Rudenko, V. K., 3B64
 Rudin, A., 1C115
 Rudnev, G. K., 3C29
 Rudnevskii, N. K., 2B166, 2J74, 3B90, 6B134
 Rudnick, L. R., 2C85
 Rudolph, D., 3H16
 Rudolph, G. R., 6D104
 Rudometkina, T. F., 2B38, 2B141, 3B131
 Rudy, C. R., 1B29
 Rudzinski, W. E., 2J31
 Rudzitis, I., 2B51
 Ruedas, E., 2D176
 Rueppel, M. L., 3A32
 Rues, B., 2J98
 Ruffie, A., 2D176
 Ruggeri, P., 3F41
 Ruggieri, G., 3F41
 Ruh, A., 6B12
 Ruhter, W. D., 4B103
 Ruiz de Lope, C., 5F28
 Rulon, P. W., 5C5
 Rump, S., 1D67
 Rumpf, T., 6C57
 Runci, F. M., 6D86
 Runov, V. K., 1B79, 4B64
 Rupainwar, D. C., 5B122
 Rusakova, N. V., 2B65
 Ruseva, E., 6J43
 Ruseva, N., 2J63
 Rushing, L. G., 1D106
 Rusin, B. A., 3C55
 Russell, D. H., 5D118
 Russell, G. F., 5J106
 Russell, I. M., 3C103
 Russell, R. W., 3D134
 Russo, J., 4H22
 Russo, S. O., 3J99
 Russo, T., 4D286
 Russwurm, H., 6F75B
 Rustamov, N. Kh., 5B139
 Ruth, W., 4E25
 Ruyter, I. E., 6C83
 Ruzicka, J., 1J9, 4D139, 5J15
 Ryabchikova, V. P., 6B134
 Ryabchuk, G. N., 3J75
 Ryabchun, A. Yu., 4J102
 Ryabinin, V. B., 6B127
 Ryall, M. E. T., 5D162
 Ryall, R. R., 2J19
 Ryan, D. E., 1B10, 1D25, 4H44, 5H77
 Ryan, J. J., 6F32
 Ryan, P. A., 2G12
 Ryan, P. W., 2J76
 Ryan, R. L., 1H25
 Ryan, W., 2J3
 Rybakova, B., 3D85
 Rybasov, A. G., 2B118
 Rybina, T. F., 4B176
 Rybinska, K., 3F25
 Rychkova, V. I., 2H80
 Ryder, K. W., 3D244
 Ryl'kova, A. S., 1B152, 4B156
 Rymal, K. S., 6F47
 Rymen, T., 1B97
 Rymoreva, I. N., 3C96
 Ryska, M., 6E53
 Ryzewski, C. N., 5D209
 Rzhavichev, S. P., 5B44
 Saari, L. A., 4B62
 Saarinen, L., 1H4
 Saarinen, L. H., 3H38
 Saas, A., 6H33
 Sabatino, B., 3D255
 Sabourin, M. A., 3D86
 Sabry, N. N., 6E19
 Sachse, K., 6C73
 Sacks, R. D., 1J109
 Sadana, R. S., 2H63
 Sadanaga, T., 1D83
 Saddler, J., 5J10
 Sadlet, J., 5H2
 Sadvovskaya, V. G., 1B54
 Sadowski, R., 6G6
 Saeed, K., 6D41
 Saeki, M., 2F24
 Saeki, T., 2B40
 Safarova, M., 3C10, 3C11
 Safe, S. H., 3C121
 Saferstein, R., 1C6
 Safonova, M. K., 6C7
 Safronova, O. A., 3C117
 Sagawa, T., 6B167
 Sagi, S. R., 4C16
 Sagner, Z., 3C37, 3C57
 Sagredos, A. N., 4G11
 Saha, M. B., 1B182
 Sahasrabudhe, M. R., 4F32
 Said, A. S., 1J22, 4J24
 Saidvaliev, A. K., 6D145
 Saikusa, H., 3D66
 Saini, G., 2H60
 Saint-Jalm, Y., 1D6
 St. Pierre, J., 6B8
 Saito, Akiko, 2D75
 Saito, Akira, 3D198
 Saito, K., 2B25, 4B31
 Saito, Kazuo, 3D161
 Saito, Makoto, 4D173
 Saito, Morimasa, 2B150, 6B155
 Saito, N., 3D161
 Saito, Takashi, 2C73
 Saito, Toshihide, 2H86, 6H57
 Saitoh, H., 4E37
 Saitoh, Y., 4D116, 6D72
 Sakaguchi, K., 1B113
 Sakaguchi, T., 3D158
 Sakagumi, Y., 1H66
 Sakai, H., 5B127
 Sakai, K., 4B71
 Sakai, Kaoru, 5J123
 Sakai, Tadao, 1D162, 4E14, 4E67, 6C65, 6E10
 Sakai, Tadashi, 2D262, 3D136
 Sakajoh, M., 5F25
 Sakamoto, I., 4E19
 Sakamoto, S., 4D201
 Sakao, N., 6B152
 Sakashita, T., 6D113
 Sakata, M., 3D141, 6D138
 Sakharov, S. G., 5E45
 Sakhartova, O. V., 3E33
 Sakhnovskii, M. Yu., 6C64
 Sakodynskii, K. I., 1J45, 5C34, 6J61
 Sakuma, Y., 2B75
 Sakurai, E., 1D73
 Sakurai, H., 6H10
 Sakurai, N., 1H92, 4H90
 Sala, C., 2H33
 Salama, F., 3E51
 Salamone, J. D., 2J178
 Salas, D. S., 5C57
 Salayamon, G. S., 4H24
 Saldadze, N. G., 3B92
 Saleh, F. Y., 6H61
 Saleh, N. S., 1H46
 Salganskii, Yu. M., 3B95
 Salinas, F., 2B26, 2B115, 3A11, 4B129, 5B141
 Saliot, A., 6H55
 Sallis, J. D., 5D102
 Salo, R. W., 6J110
 Salonen, P., 2B76
 Salvador, A., 1C83
 Salvador, G. S., 5E37
 Salvapathy, G. S., 1B117
 Salvatore, F., 4D286
 Salvayre, R., 5D218
 Salvi, M. L., 4D277
 Salvucci, D. A., 3J99
 Salya, Ya. V., 5B159
 Sam, G. E., 5C57
 Samajpati, N., 1G30
 Samarin, K. M., 6C52
 Sambandam, T., 1G16
 Sambucetti, M. E., 4F39
 Samchenko, Z. A., 3H65
 Samejima, K., 4D201, 6D197
 Samimi, B. S., 3H37, 6J9
 Samochocka, K., 3B117
 Samorukova, O. L., 5B161
 Samozuk, M., 5D31
 Samperi, R., 1D121, 2D140
 Samuel, G., 2D244
 Samuelson, T. J., 3G1
 Sanada, Y., 6C61
 Sanahuja, J. C., 4F39
 Sanborn, R. H., 6C59
 Sanchez Batanero, P., 3B10, 4B96
 Sanchez-Medina, F., 1D163
 Sanchez-Pedreno, C., 1B64, 1B112, 3B41, 5B41, 5B43, 5B150
 Sanchez-Pedreno, M., 3B67
 Sanchez-Pozo, A., 1D163
 Sanchez-Rasero, F., 5G29
 Sandberg, G., 1G23
 Sander, R., 5H74
 Sanders, P. J., 4C87
 Sanders, T. W., 4B78
 Sandman, R., 3D301
 Sandmeyer, U., 5F40
 Sandra, P., 1J79, 4C66, 5J86
 Sandrenan, N., 3D101
 Sandron, D., 1D275
 Sane, R. T., 4E4, 4E24, 4E49, 4E65, 4E66
 Sanemasa, I., 2H70
 Sang, J. P., 2F6
 Sangal, S. P., 1B78
 Sanghavi, N. M., 4E3
 Sannino, A., 6H74
 Sano, A., 4C11
 Sano, H., 4D32
 Sano, M., 3D71
 Sanodze, M. L., 3B92
 Santagostino, G., 5D132
 Santiago, M., 6H40
 Santo, H., 2F1
 Santos Delgado, M. J., 2B31
 Sanz, J. M., 4B12
 Sanz-Medel, A., 1D29, 5B100, 6B122
 Saoji, A. M., 2D236
 Sapezhinskaya, S. M., 4B64
 Saporovskaya, M. B., 4D208
 Sapozhnikova, T. I., 5B175
 Sappa, E., 5C28
 Saprykin, A. I., 2B176
 Sarantonis, E. G., 6J148
 Sarbu, C., 3C47
 Sarghie, I., 6B173
 Sarieva, L. S., 1B108
 Sarig, S., 6F15
 Sarma, B. S. R., 4B32
 Sarma, P. N., 3C33
 Sarsunova, M., 1E29
 Sartorel, B., 4C65, 4G23
 Sartorelli, A. C., 2J18
 Sarycheva, I. K., 3C96
 Sasaki, G., 2J6
 Sasaki, K., 3D160
 Sasaki, M., 5F35
 Sasaki, T., 2B37, 4B6
 Sasaki, Yoshiaki, 2B44
 Sasaki, Yoshiyuki, 3D72
 Sasayama, K., 1A9, 5B79
 Sase, M., 4B181
 Sassa, S., 5D230
 Sassa, T., 3G27
 Sassard, J., 1D126
 Sastri, C. S., 4B147
 Sastri, M. N., 3H67
 Sastry, C. S. P., 1E11, 4E69, 5B24
 Sastry, M. D., 6B76
 Satake, M., 1B57, 1B151, 1B155, 1B171, 1B183, 4B37, 4B138, 4B189, 5B143
 Satake, S., 3D154
 Satcs, V., 3E33
 Sathe, V. H., 4E3
 Sato, J., 2D75
 Sato, Katsuya, 6F12
 Sato, Keizo, 3D140
 Sato, Kimitaka, 1B168
 Sato, M., 3B2
 Sato, Michihiko, 1D170
 Sato, S., 1B159
 Sato, Tatsuo, 4D263
 Sato, Toshimitsu, 4B169
 Sato, Y., 4F16
 Satoh, H., 2E37
 Satoh, Katsuhiko, 1B85
 Satoh, Kunitaka, 4B118
 Satsangi, A. K., 5E18
 Sauer, K. H., 3B144
 Saulova, E., 4C56
 Saunders, G., 2E20
 Saura Calixto, F., 6J62
 Saussez, C., 6D223
 Sauter, A. D., 3H5, 6H65
 Savard, P., 5D130
 Savell'eva, G. I., 5E1
 Savell'eva, N. A., 1A17
 Savenkova, L. D., 2C119
 Savin, A. S., 1J118
 Savin, W., 1B49
 Savolainen, A., 2B117
 Savory, J., 6D255
 Savos'kin, M. V., 4C32
 Savostina, V., 2B165
 Savranskii, L. I., 3D32
 Savvin, S. B., 1B27, 2B71, 4B79, 4B203, 5B39
 Sawaki, S., 1D147, 1D259
 Sawant, M. A., 1B87
 Sawicka, W., 1E47
 Sawyer, D. L., 4J124
 Saxena, R., 5B64
 Sayem-el-Daher, N., 2F4
 Sayers, C. A., 2D125
 Sbezheva, V. G., 1C35
 Scalella, P., 1D176
 Scarlata, G., 6C37
 Scasnar, V., 6F35
 Scatton, B., 3D157
 Scawen, M. D., 2D82
 Schaaf, T. K., 2D73
 Schabron, J. F., 2C74
 Schaefer, K., 2J75
 Schaefer, K. H., 3H80, 4H84
 Schaefer, R. G., 1C66
 Schaefer, U., 6E23
 Schaeffers, F. I., 2J61
 Schaeffer, J. R., 2D260
 Schaffer, C. L., 4C88
 Schaffer, R., 4J107
 Schafmayer, A., 3D230
 Schalekamp, T., 4C29
 Schamp, N. M., 2C53, 3H29
 Schaper, H., 1J135, 2J126
 Scharmann, A., 2J107
 Scharpe, S. L., 5D46
 Scheinin, M., 4D192, 5D105
 Schelfaut, M., 4C66
 Scheller, F., 1D229
 Schelly, Z. A., 2B135
 Schenck, J. R., 5D151
 Schenck, P. A., 2C25
 Scheppele, S. E., 2J151, 2J152
 Scherer, S. J., 1G27
 Scheruemann, D. W., 2D3
 Schiebel, H. M., 2D269
 Schiele, H. D., 2C129
 Schierhorn, M., 3C51, 5C83
 Schildkraut, J. J., 2D198
 Schill, G., 1E63

- Schiller, C. M., 1D238
 Schilling, B., 5J88, 5J89
 Schilling, R. F., 3D286
 Schindlbauer, H., 6C57, 6C82
 Schindler, V. H., 4D70
 Schinelli, S., 5D132
 Schinke, I., 4C28
 Schintlmeister, W., 3B4
 Schiotz Nielsen, W., 6F24
 Schipper, J., 2D191
 Schlachach, T. D., 1D184
 Schlatterer, B., 2D95
 Schleicher, E. D., 6D199
 Schleicher, R. G., 2J115
 Schlett, R., 2D220
 Schlieckmann, F., 1H53
 Schlipf, J., 4J16
 Schmauder, H. P., 3D99
 Schmid, E. R., 3A28, 6A7
 Schmidel, E. N., 1J89
 Schmidt, E. W., 2H22
 Schmidt, G. J., 3J83
 Schmidt, H., 1J34
 Schmidt, Hans, 3E32
 Schmidt, H. E., 3D99, 3D233
 Schmidt, K., 1E29
 Schmidt, K. G., 2H93
 Schmidt, L., 3J113, 5J54
 Schmidt, N. A., 1D249
 Schmidt, R., 1F4
 Schmidt, R. H., 6F8
 Schmidt, W. P., 4J14
 Schmidt-Gayk, H., 3D229
 Schmidt-Gollwitzer, K., 4D67
 Schmied, R., 2J81
 Schmit, A. S., 6D151
 Schmitt, K., 3D286
 Schmitter, J. M., 3C71
 Schmitz, D., 6J4
 Schmuck, E., 5F40
 Schnabl, G., 2D104
 Schnedler, E., 1J135, 2J126
 Schneider, A. S., 2D293
 Schneider, D. R., 6J19
 Schneider, P., 6D45
 Schneider, R., 6C17
 Schneider, S., 2C116
 Schnekenburger, J., 5E3
 Schnell, J. P., 2J163
 Schnell, R., 4D244
 Schnitzler, M., 5H74
 Schnurrbusch, M., 1B93, 6B33
 Schober, W., 3B162
 Schoebel, G., 4B125
 Schoech, D., 6D133
 Schoeffling, K., 2D107
 Schoeller, D. A., 5B27
 Schoen, R., 1D213
 Schoeneshoefner, M., 4D178
 Schoenmakers, P. J., 1J43, 5J39
 Schoffstall, A. M., 5D185
 Scholer, A., 1D270
 Scholten, M. N. M., 6D1
 Scholz, E., 3B20, 3C3
 Scholz, F., 6J160
 Scholze, A., 3F42
 Schomburg, G., 1C18, 1J85, 1J93
 3J47, 4A26
 Schoonman, J., 2B23
 Schoor, W. P., 2H92
 Schopman, W., 1D249
 Schoor, M. A., 2D1
 Schormann, J., 5H45
 Schorr, W. K., 2J137
 Schothorst, R. C., 1A8
 Schou, J., 3B5
 Schoun, J., 6D77
 Schrader, B., 2J131
 Schrader, L. E., 3D272
 Schrader, U., 3E1
 Schram, D., 5C77
 Schram, K. H., 4D287
 Schramel, P., 2D33, 4D18
 Schramm, G., 3E24
 Schreiber, I., 2E67
 Schreiber, W. E., 3D267
 Schreier, P., 3D288
 Schreurs, V. V. A. M., 1D191
 Schreurs, W. H. P., 4D191, 6J118
 Schrick, B. R., 1F19
 Schriewer, H., 4D167
 Schrijver, J., 4D191
 Schroeder, D. H., 3D96
 Schroeder, H. R., 4D264
 Schroeder, W., III, 1D240
 Schroedl, W., 6B142
 Schrott, L. A. F., 6D7
 Schubbe, S., 4J93
 Schubert, F., 1D229
 Schubert, K., 3D70
 Schubert, R., 4D67
 Schubert, J., 3D54
 Schuch, P. G., 2H21
 Schuegerl, K., 4D131
 Schueler, B., 1J154
 Schuette, S. A., 5J76
 Schuettelkopf, H., 3B83
 Schuetz, H., 4D96
 Schuetze, S., 6B109
 Schuetzle, D., 5H12
 Schulman, S. G., 5A20, 5D72
 Schulte, B., 3D188
 Schulte, E., 3F19, 3F20, 3H7
 Schulten, H. R., 2D269
 Schulz, G., 1C120
 Schulz, H., 6J55
 Schulze, B. W., 4D93
 Schulze, E., 3H82
 Schulze, G., 2D41, 3B53, 3H58
 Schulze, H. A., 3B135
 Schulzeck, S., 3D249
 Schunck, W., 2C43, 2H96
 Schur, F., 2F44, 6F59
 Schuster, J., 6C82
 Schutysen, P., 2H47
 Schutz, H., 2D79
 Schuurhuis, F. G., 6H27
 Schuurmans, J. J., 1J96
 Schwachula, G., 1J74
 Schwager, I., 3C89
 Schwandt, P., 4D268
 Schwartz, C. L., 3D245
 Schwartz, G. J., 3D314
 Schwartz, I. K., 6D118
 Schwartz, K. D., 3D232
 Schwartz, S., 3D3
 Schwarzenberg, M., 6B84
 Schwarzer, R. R., 2H65
 Schwarzing, G., 2J139
 Schwedt, G., 1F3, 2C43, 2F38,
 2H96, 4D187, 6B140, 6D42,
 6D45, 6F2
 Schweer, H., 5C16, 5D90
 Schweers, H., 4C7
 Schweickhardt, C., 2D139
 Schweizer, D., 4F77
 Schwerkoske, J. F., 6D79
 Schwertfeger, G., 1H80
 Schwiesow, M. H., 2F45
 Schwing, J. P., 6D147
 Scilla, G. J., 2B89
 Sciortino, T., 5E28
 Sclafani, L., 4D8
 Scooca, J. J., 1C114
 Scott, D. M., 5J17
 Scott, H. P., 1J50, 4E64, 4J39
 Scott, I. R., 4D239
 Scott, J. W., 4D129
 Scott, R. P. W., 4J61, 5J42
 Scott, V. D., 2J90
 Scriba, P. C., 5D168
 Seaborg, G. T., 3B85
 Seada, M. H., 4B39
 Searle, E., 2C76
 Sebill, B., 1D193
 Sebor, G., 4C46, 5C59
 Secchi, C., 5D94
 Seddon, R. M., 2D42
 Sede, L., 4C65, 4G23
 Sedlacek, W. A., 6H18
 Sedov, A. I., 2E48, 6D139
 Sedvall, G., 6D214
 Seefeldt, R. G., 2C104
 Seegal, R. F., 5D104
 Seegmiller, J. E., 4D317
 Seehofer, F., 5D3
 Seeleitner, G., 2F51
 Seemann, G., 4D67
 Seemann-Preisung, B., 2D269
 Seevers, P. J. H., 6B24
 Sefton, M. V., 3H18
 Segal, S., 5D142
 Segelman, A. B., 1D89
 Segre, G., 6D86
 Seiber, J. N., 3H2
 Seibl, J., 3J119
 Seifert, B., 2H24
 Seifert, R., 6D250
 Seila, R. L., 6H23
 Seitz, J., 1D272
 Seitz, W. R., 4B62
 Seiyama, T., 2J164
 Sek, C. V., 6B84
 Seki, T., 4D184, 5D115
 Sekine, T., 1B91
 Sekine, Tatsuya, 1B61
 Sekine, Toshiaki, 4D252
 Sekino, J., 6D209
 Sekiya, H., 3F52
 Sekiya, Y., 4F16
 Sekowska, B., 6C42
 Sekso, M., 6D189
 Selavka, C., 4D119
 Selezneva, I. P., 2B53
 Self, R., 6D178
 Selig, W., 3C46, 3C53, 3J150
 Seliger, H., 2D269
 Seliger, H. H., 5D86
 Selim, S., 2J185
 Selin, E., 4H3
 Selinger, K., 5D50, 6J158
 Seliskar, C. J., 1B29, 3J6
 Selke, E., 5F72
 Sell, C. R., 6G24
 Sell, J. E., 1J133
 Sello, G., 3D266
 Sellschop, J. P. F., 3B12
 Sel'manshchuk, N. N., 3H76
 Selove, W., 1J184
 Seltzer, H., 5H3
 Seltzman, H. H., 4D70
 Selucky, M. L., 3C88
 Selvam, R., 3D171
 Semenenko, E. I., 1E13
 Semenenko, K. A., 3B43
 Semenikhina, A. S., 3C29
 Semenov, B. P., 3J77
 Semenov, T. A., 2C17
 Semenovskaya, E. N., 2B138
 Semkin, E. P., 1E8
 Sen, A., 2F39
 Sen, Aditi, 4D140
 Sena, F. J., 1C109
 Senchenko, G. G., 5C14
 Senelt, S., 1F54
 Sener, A., 1D44
 Sengen, F. I., 5E33
 Sen Gupta, P., 6F42
 Senofonte, O., 1D20
 Senter, S. D., 4F53, 6F49
 Senyavin, M. M., 5B39
 Sepaniak, M. J., 5C35, 5F64
 Seperich, G. J., 4F42, 5F60
 Septon, J. C., 3H31
 Sera, K., 5B82
 Serbinovich, V. V., 4B216
 Serebrennikova, V. A., 3F10
 Serfontein, W. J., 1D215
 Sergeev, G. M., 5C7
 Serikov, Yu. A., 3J142, 4B35
 Serrano, C., 1A13
 Serum, J. W., 3J99
 Serve, L., 4G9
 Sestak, Z., 6D257
 Setchell, K. D. R., 1D146, 2D128
 6D194
 Sethi, B. M., 1B6, 6B3, 6B110
 Sethi, C. L., 3B9, 4B132, 4B138,
 4B189
 Sethi, S. K., 1C16
 Setoyama, M., 2B125
 Settlege, J. A., 2D88
 Sevcik, J., 3H4
 Sevenich, G. J., 1B16
 Sever, J. L., 6D9
 Severin, D., 4J32, 6C47, 6C48
 Severin, T., 5F8
 Severson, R. F., 1J78
 Sevin, F., 5C85
 Seyama, Yoshiyuki, 2D296
 Seyama, Yousuke, 3D196
 Seyda, K., 3E14
 Seymour, M., 2J31
 Sha, J., 1E26
 Shaaban, S. A. M., 4E47
 Shabanova, T. M., 3B90
 Shabanowitz, J., 4H68
 Shablygin, M. V., 3C108
 Shabushnig, J. G., 5J110
 Shackelford, W. M., 2H94
 Shackleton, C. H. L., 1D138,
 2D174, 6D186
 Shaevich, S. B., 2B53
 Shafer, K. H., 2H100
 Shafranski, I. V., 6J21
 Shah, H. P., 4D249
 Shah, K. B., 2D244
 Shah, V. D., 6D276
 Shaheen, N., 6G10
 Shahine, S., 3E13
 Shahwan, G. J., 3B111, 3J19
 Shain, S. A., 6D269
 Shakhov, Y. A., 1D279
 Shakhov, T. T., 1E48
 Shakur, A., 3B112
 Shamanskii, V. A., 2C90
 Shamberger, R. J., 3D42
 Shamsa, F., 4D173, 6D191
 Shand, A. J., 6D137
 Shand, D. G., 3D108
 Shanfield, H., 2C11, 4J63
 Shang-Qiang, J., 3D53
 Shani, G., 3H13
 Shannon, G. M., 5G19
 Shao, X., 4E36
 Shapovalov, S. A., 1B35
 Shapovalov, V. A., 5E35, 6E48
 Shapovalova, V. N., 4B199
 Sharafiev, I. M., 2B146
 Sharma, A. K., 1E39
 Sharma, Ashok K., 6J146
 Sharma, G. K., 6C78
 Sharma, K. N., 1B154, 4B192
 Sharma, O. P., 2D147
 Sharma, P., 5B125
 Sharma, P. K., 1B126, 5B34,
 5B121, 5F45
 Sharma, R. S., 4D284
 Sharma, S. D., 1B6, 6B3, 6B110
 Sharma, S. K., 2C27, 5B83
 Sharma, S. N., 4C58
 Sharma, T. R., 6B3
 Sharma, U., 3J42
 Sharma, V. K., 4B81
 Sharma, Y. P., 5F45
 Sharmad, S., 4D97
 Sharman, J. R., 3D78
 Sharp, A. M., 2D181
 Sharp, M. E., 3D56
 Shatkey, A., 1D79
 Shatton, J. B., 4D334
 Shaw, C. J., 3J104
 Shaw, E. J., 6D63
 Shaw, J., 4D82
 Shaw, P. E., 1F33, 1F41
 Shaw, P. G., 3D129
 Shaw, P. N., 6D116
 Shaw, W., 6D74
 Shazzo, Yu. K., 2B130, 4B143
 Shchegoleva, L. N., 1B99
 Shcherbakov, V. I., 2B43
 Shcherbina, O. M., 4E46
 Shcherbina, O. N., 6E43
 Shcherbinina, N. I., 5B39
 Shcherbov, D. P., 3B168
 Shcheredina, M. I., 5B134
 Shebalina, M. O., 6E21
 Sheeley, R. M., 5F24
 Sheina, N. M., 4B74, 4E33
 Shek, E., 1E42
 Shekarchi, I. C., 6D9
 Sheldon, J. W. S., 5D65
 Shelpakova, I. R., 2B176, 2B178
 Shelter, I. F., 6B52
 Shen, H., 1B144, 4B144, 5B133
 Shen, X., 4B11, 4B211

- Shenberg, C., 3B143, 5J99
Shenton, A. J., 6F28
Shenton, F. C., 1F1
Shepard, R. M., 4D73
Shepherd, M. J., 5C10
Shepot'ko, N. B., 2C47
Sheppard, K., 5D165
Sher, P. P., 1D8
Sherma, J., 2D211, 4E17, 6C70, 6D175, 6G26
Sherman, R. M., 6F22
Sherwood, M. J., 3D147
Sherwood, R. A., 2J11, 4D43
Sheshagiri, T. K., 6B76
Shestakov, V. A., 4B195, 5B159
Shestakova, G. E., 4B93
Shesterova, I. P., 5B120
Shetty, H. U., 5D53
Shevchenko, Z. A., 6D190
Shi, G., 4B76
Shi, H., 4B50, 4B72
Shi, J., 4B84
Shi, Yufang, 5B45
Shi, Yunhua, 4E40
Shiba, K., 2B25, 4B31
Shiba, Keiko, 6D155
Shibahara, N., 4D201
Shibanoki, S., 3D57
Shibata, J., 1B38
Shibata, S., 1D34, 2A23
Shibata, T., 3D309
Shibata, I. V., 1C106, 2C33
Shibukawa, A., 1D153
Shida, J., 3B103
Shields, C. K., 1D41
Shifris, B. S., 3B157
Shiga, N., 2G14, 3G39
Shigematsu, T., 4H80
Shigetomi, Y., 4H8
Shih, V. E., 2D281
Shihata, A. A., 1F31
Shikano, K., 1B145, 6B139
Shikheeva, I. A., 1J120
Shilov, Yu. M., 6B48, 6E21
Shima, E., 4B214
Shimabayashi, Y., 5D124
Shimabuku, R., 1D221
Shimada, Kazuko, 6F31
Shimada, Kazutake, 4A8
Shimada, Kenji, 3D158
Shimada, N., 6D66
Shimada, S., 2D118
Shimada, T., 4F8
Shimamori, Y., 3D253
Shimamoto, K., 4D231
Shimamoto, Kazuaki, 1D276
Shimasaki, H., 4F72
Shimazaki, K., 4F48
Shimizu, A., 3D317
Shimizu, K., 5B67
Shimizu, Koji, 3D189
Shimizu, N., 3B166
Shimizu, Reiji, 2E53
Shimizu, Ruyichi, 5B181
Shimizu, T., 5J123
Shimoda, K., 6F12
Shimoda, W., 4D123
Shimokoshi, K., 1J138
Shimomura, S., 6H10
Shimono, T., 4B108
Shimura, Y., 3D160, 5D224, 5D225
Shin, Y. S., 1D247
Shina, P. P., 3B152
Shinal, E. C., 6E17
Shinbori, Y., 1E79
Shinde, V. M., 6B51
Shingari, M. K., 1J66
Shingbal, D. M., 1E55, 1E65, 3E18, 3E48, 3E58, 4E52
Shinka, T., 2D138
Shinohara, R., 1C65, 3H90
Shinozuka, N., 2J172
Shinozuka, T., 5B82
Shipe, J. R., jun., 1D49
Shippy, C., 2D57
Shirahata, A., 6D197
Shirai, T., 2C73
Shiraishi, K., 6D251
Shiryayeva, O. A., 4B195, 5B159
Shishkina, I. P., 1B174
Shishkov, A., 4E44
Shishkov, A. N., 1B123
Shishkova, L. A., 5E47
Shishov, V. N., 1B109, 6B98
Shkaravskii, Yu. F., 2B111
Shmatova, L. N., 1G19
Shmelev, V. A., 3C96
Shoach, A. M., 5J122
Shoemaker, C. F., 5J106
Shohmori, T., 1D256
Shoji, S., 3D25
Shoji, T., 5B101
Shok, M., 4E20
Sholypov, S. E., 3J72
Shomura, T., 6D66
Shono, T., 1B31, 4B29, 6D24
Shotwell, O. L., 5G19
Shoukry, A. F., 4B82, 6B164, 6B168
Shoup, R. E., 1D151, 3D8
Shpolyanskii, A. Ya., 6B4
Shrewsbury, D. D., 1J48
Shrivastava, A. K., 2B45
Shstepa, V. I., 4H4
Shtitel'man, Z. V., 1B114
Shtivel, N. Kh., 3C20
Shu, B., 5B171
Shu, H., 3E38
Shu, Z., 1C108
Shubin, S. F., 5H11
Shukla, I. C., 4E72
Shukla, J. P., 1B18, 2B85
Shukla, V. K. S., 6F24
Shuler, R. G., 2J116
Shuler, S. E., 2D285
Shul'ga, T. A., 4E74
Shulkes, A. A., 1D181
Shulman, S. D., 2J51
Shum, A., 2D72
Shuman, M. A., 4D331
Shumilov-Karabutov, I. S., 3C29
Shunk, E. R., 2B84, 4B10-
Shurupova, T. I., 1B185
Shushan, B., 3D11
Shushunov, N. V., 5C25
Shushunova, A. F., 3C59
Shutjes, C. P. M., 2J59
Shvengler, F. A., 1B135
Shvoeva, O. P., 5B39
Siadat, L., 2B39
Sibbald, A., 2D43
Sichtermann, W., 4D300
Sicre, J., 5D218
Siddiqi, W. A., 5J65
Siddiqi, Z. M., 3B79
Siddiqui, M. A., 5G1
Siddiqui, M. H., 2D306
Siddiqui, Z. M., 2D212
Sidei, M. M., 5H29
Sidhom, M. B., 1E61
Sidki, A. M., 1D64
Sidloi, M., 5D180
Sidnin, A. I., 6C88
Sidorov, Yu. V., 5C25
Siebert, K. J., 6F56
Siechau, R., 3B173
Sieck, L. W., 3C75
Siefing, G. E., jun., 4D251, 4D257
Siegel, L., 6D181
Siegfried, W., 6B2
Siegler, R. W., 6D133
Sigmund, E. G., 2D116, 2E30, 2G17, 2G18, 5F19
Siekmann, A., 2D70
Siekmann, L., 1D143, 2D70, 4D172
Siemer, D. D., 1B134, 1J116, 2J103, 4J84
Siemion, C. C., 5J33
Siemroth, J., 2E69
Siepak, J., 2B139, 4B159
Siergiej, R. W., 3J18
Sierra Hernandez, M. T., 5B150
Sierra Jimenez, F., 1B64
Sievers, R. E., 5C27
Sigl, G., 6B50
Signorini, C., 6D71, 6D73
Sigvardson, K. W., 5C45
Siitari, H., 2D255
Sikora, K., 6D239
Sil, S., 6F42
Silas, J. H., 3D102
Siljestrom, M., 6F3
Silva, M., 1F5, 3B52
Silva, S., 1E34
Silver, H. F., 4C61, 4C62
Silverman, F., 5H9
Silvestri, R., 5D83
Simakova, V. S., 3E81
Simal, J., 5F15, 5F16, 5F17
Simanek, U., 1C124
Simard, R. E., 2F4
Simeonov, V., 3J141, 5H61
Simmons, D., 1J164
Simon, I., 4D299
Simon, J., 1C118
Simon, Juergen, 3D41
Simon, R., 3J52
Simon, W., 3D26
Simonaitis, R. A., 5C78
Simone, M. J., 1J107
Simonenko, V. I., 1B42, 2B32, 4B43
Simonetti, P., 2F34
Simonic, T., 5D94
Simonet, F., 6D32
Simonov, E. F., 5B12
Simonov, V. A., 3H33
Simonov, V. I., 2J93
Simons, K. J., 2E12
Simova, M., 6E15
Simpkins, H., 2D19
Simpson, D. S., 2D192
Simpson, R. C., 5C21
Sindalkova, E., 4D162
Sindhvani, S. K., 3B152, 6B32, 6B170
Sindona, G., 4C6
Sine, H. E., 2D38
Singh, A. K., 6D241
Singh, B. B., 3E12
Singh, B. N., 3D113
Singh, H. B., 1B155, 5B143
Singh, I., 5F44
Singh, I. D., 4C58
Singh, J., 1B154, 4B192
Singh, Joginder, 5G28
Singh, J. P., 5B122
Singh, K., 6B16
Singh, M., 4E70, 5B125
Singh, Mahkan, 1B110, 5B18
Singh, N., 2J85
Singh, N. P., 4D31
Singh, O., 1C17
Singh, O. V., 3B54
Singh, R., 6B30
Singh, R. B., 1B180
Singh, R. L., 5B83
Singh, Rajendra Pal, 5F44, 6B170
Singh, Raj Pal B., 2J170, 3B26
Singh, V. P., 1B20
Singlas, E., 1D93, 4D102, 5D73
Singleton, K. E., 4J117
Singliar, M., 3H97
Sinha, J. K., 2D263
Sinha, P. P., 6B32
Sinhamahapatra, P. K., 3B136, 4B171, 4B172, 4B173, 4B174, 4B208
Sinityn, Yu. B., 2B174
Sinkule, J. A., 6D69
Sinn, R. P., 3B152
Sioufi, A. M., 4J30, 4J51
Sioufi, A., 3D101
Sirghie, E., 6B173
Sirikova, E. A., 6B98
Sirimanne, P., 1C24
Sirois, G., 5D57
Siroki, M., 3B161
Siroitina, N. M., 5C7
Sirowej, H., 1D217
Sisengalieva, M. S., 1C74
Siskos, P. A., 6D160
Sista, H. S., 5D71
Sistovans, N., 6D83
Sitaram, B. R., 3D206
Sitaramam, B. S., 4C86
Sitnikova, E. F., 2C21
Siu, K. W. M., 2C44, 3H86, 3J55
Sivaprasad, N., 2D244
Sivaramakrishnan, C. K., 5B92
Sivasamban, M. A., 4C86
Sivaswamy, N., 1G16
Sivner, A. L., 6D116
Sizova, G. S., 3C43
Sjodahl, J., 1J57
Sjoevik, I. J., 6C83
Sjostrom, E., 5C18
Sjostrom, M., 6A17
Sjostrom, R., 3D34
Sjoval, J., 4D170
Skea, W., 1D171
Skei, J., 5H85
Skeldon, P., 5B67
Skelly, E. M., 2D48, 2H54, 3D37, 3D38
Skelly, J. P., 2E30
Skelton, E. F., 2J87
Skiba, U., 2H105
Skidmore, P. R., 1B56, 2J1
Skierkowski, P., 6E22
Sklemina, L. V., 2J74
Skole, A., 3D228
Skorepa, J., 4D162
Skrabalak, D. S., 3D73, 5D41
Skraha, B. D., 2C59
Skreblin, M., 6E51
Skrede, G., 4F34
Skrha, J., 2D297
Skripchuk, V. G., 5H100
Skryabina, L. G., 5B1
Slaby, P., 6D274
Slach, E. F., 1D107
Slais, K., 1J52, 4J44, 6E46
Slanina, J., 1H55
Slanker, M. R., 4D20
Slater, D. N., 1D17
Slater, D. P., 1B198
Slates, R. V., 1G26
Slavin, J. L., 6F4
Slavin, W., 1H47, 1J115, 1J119, 2H52, 3D36, 3J83, 4D33, 5J115, 6B99, 6J90
Sleekman, B. P., 2D211, 4E17, 6C70
Sleeter, R. T., 2F60
Slessor, K. N., 4D148
Slezko, N. I., 6B118
Slifker, R. A., 2H68
Slobodenyuk, T. A., 4B54
Slonawska, K., 5B158
Slump, P., 1G21
Sly, T. J., 6A25
Slyter, S. A., 4D280
Smagin, A. G., 6B193
Smaglyuk, N. G., 6E61
Smakhtin, L. A., 3C73
Small, G. J., 4J77
Small, G. W., 6A26, 6C32
Small, H., 2B1
Smallbone, B. W., 4F32
Smalldon, K. W., 3C119
Smart, R. B., 2H69
Smejkal, Z., 4G1, 6B57
Smerdova, S. G., 3C69
Smerdanin, V. I., 2C18
Smethurst, A. M., 6D117
Smets, B. M. J., 3B170
Smick, D. R., 2C80
Smidl, P., 4J28
Smidt, J., 6J109
Smirnov, A. S., 6C7
Smirnov, P. V., 1C48
Smirnova, E. V., 3J134
Smirnova, G. M., 1B68
Smirnova, T. P., 3B108
Smirnova, Z. S., 3C20
Smit, H. C., 1J27, 2J12, 6J23
Smith, A., 3D207
Smith, A. E., 6G23
Smith, A. F., 1D226
Smith, B., 1J132

- Smith, B. E., 3J90, 5C51
 Smith, C. A., 3B23
 Smith, C. H., 1D52
 Smith, C. V., 5D110
 Smith, D. A., 2H68
 Smith, D. B., 1G6
 Smith, D. E., 2H23
 Smith, D. F., 1H9, 3H83
 Smith, D. G. W., 6B181
 Smith, David H., 2J136, 3B68, 4J3
 Smith, Douglas H., 1J84
 Smith, D. L., 2D271, 4D287
 Smith, D. S., 1D64, 6D63
 Smith, G. C., 3C85
 Smith, G. H., 4D54
 Smith, G. L., 2F62
 Smith, J. E., jun., 2J116
 Smith, Joseph E., 6D245
 Smith, J. M., 3D18
 Smith, J. R., 4J21
 Smith, J. W., 2D205
 Smith, L. A., 4J113
 Smith, L. M., 5H94
 Smith, M. J., 3D286
 Smith, M. S., 3D108
 Smith, N. B., 1D133
 Smith, P. G., 3D96
 Smith, R., 4H89
 Smith, R. A., 3J26
 Smith, R. D., 3J35
 Smith, R. E., 1G17, 5J7
 Smith, R. G., 2J146
 Smith, R. L., 6C36
 Smith, R. Martin, 1C7
 Smith, Robert M., 1H84, 3C86
 Smith, Roger M., 1A27, 1F35
 Smith, R. S., 4C63
 Smith, R. V., 6D53
 Smith, R. W., 2C65
 Smith, Sammie, 6G35
 Smith, Susan, 4D199
 Smith, S. B., jun., 1J121
 Smith, S. B., jun., 2J115
 Smith, S. E., 1B191
 Smith, S. L., 3C76
 Smith, S. M., 6D194
 Smith, T. E., 5B172
 Smith, W. B., 2H6, 3J154
 Smits, H. M., 4E81
 Smolkova, E., 3C54
 Smorodina, T. A., 1B205
 Smrz, M., 5D155
 Smyth, W. F., 4D80, 4E79
 Snape, B. M., 6D212
 Snippe, H., 5J112
 Snook, R. D., 1B95, 1E14, 5J131
 Snow, D., 5H28
 Snow, M., 3D21
 Snyder, L. R., 1C110, 1C111, 2J27, 5J27, 5J41
 Snyder, P., 6J68
 Soares, J. R., 4D75
 Soberman, R. J., 6D172
 Sobina, N. A., 2H57
 Sobkowska, A., 6B74
 Soboroff, D. M., 1B1
 Society of Brewing Chemists Inc. [USA], 2F46, 2F47, 2F48, 2F50, 2F52, 2F53, 2F54, 2F55
 Soczewinski, E., 4C31
 Soda, K., 4D328, 6D286
 Soe, J. B., 2F10
 Soederhuizen, W., 2D161
 Soeldner, J. S., 2D113
 Soeling, H. D., 5D171
 Soendergaard, I., 4D204
 Soerensen, H., 4D206
 Sohr, C. J., 1D71
 Soini, E., 2D255, 2J123
 Sojak, L., 1J80
 Sokolov, N. V., 4J2
 Solano-Munoz, F., 1D160
 Solari, A., 2D11
 Solch, J. G., 2H36
 Soldin, S. J., 1D96
 Sole, M. J., 2D72
 Soler, M. D., 2A11
 Solinas, D., 5E28
 Solodchenko, N. N., 5C2
 Solomatin, V. T., 4B130, 4B212, 5B148
 Solomon, S., 6D68
 Solomon, S. B., 5J10
 Solomons, N. W., 3D22, 3D23
 Solovei, N. V., 4E39
 Solov'ev, E. A., 3C30
 Solov'ev, G. S., 6C44
 Solozhenkin, P. M., 1B135
 Solsky, R. L., 6D6
 Soltes, L., 1D57, 4D108, 6D99
 Soltys, E., 4C83
 Soma, Y., 4B14
 Somasundaram, S., 6D21
 Some, N., 3G43
 Someno, T., 2D302
 Somerville, H. J., 1H90
 Sommer, D., 1B175
 Sommer, F., 3D47
 Sommer, J., 3H73
 Sommer, K., 2J97
 Sommer, L., 3B58, 3B146
 Somosi, I., 3B59
 Sonawane, N. J., 5H50
 Sonchik, S. M., 3H3
 Song, B., 6B159
 Song, J., 2D221
 Song, L., 2D221
 Song, X., 4C26
 Sonneborn, M., 3H58
 Sonnino, S., 3D174, 3D175
 Sontag, G., 2H67, 3F38
 Sontheimer, H., 5H74
 Sood, B. S., 2J85
 Sood, V. K., 6E32
 Sorana, C., 6J164
 Sorbo, B., 2D53, 6D40
 Sorel, G., 3J114
 Sorel, R. H. A., 5D72
 Sorensen, S., 3D298
 Sorger, T., 5D182
 Sorochan, A. M., 5B39
 Sorrentino, L., 1E12
 Sosenkova, L. I., 3B91
 Sosinskaya, S. S., 6D154
 Sotak, C. H., 4J98
 Sotera, J. J., 1J121, 2J105, 5J119
 Soto, D., 6D207
 Sottolano, S. M., 1E20
 Souppart, C., 1D80
 Sourek, R., 5B10
 Soutar, I., 1H81
 Souter, R. W., 6G28
 Southon, J. R., 2H51
 Soviar, K., 3E2
 Sovocool, G. W., 1D111, 4D135
 Spacek, P., 4D226
 Spadaro, A., 1B203
 Spahn, H., 1D99, 4D89
 Spain, M., 3D87
 Spandau, D. J., 1H20
 Spangler, P. A., 1B29, 3J6
 Spatz, R., 6J22
 Speak, R., 3E65
 Specker, H., 6A10, 6B69
 Speck, A. J., 4D191
 Spellman, N. T., 6A22
 Spencer, C. A., 5C78
 Spencer, H. J., 5J80
 Spencer, K., 1D194, 4D247
 Sperling, K. R., 3J76, 5H56
 Spiers, G. A., 6G8
 Spilker, G., 1D135
 Spillman, T., 2D159
 Spincemaille, J., 6D180
 Spingarn, N. E., 1C2
 Spirina, T. L., 6C13
 Spittler, G., 2D226
 Spittler, M., 3G15
 Spitsin, P. K., 2B66
 Spittler, T. D., 1G38
 Spohr, F., 4H7, 5H52
 Sporns, P., 1F21
 Sporstoel, S., 5H85
 Spragg, S. P., 4D238
 Spremulli, E. N., 4D118
 Spreux-Varoquaux, O., 6D115
 Spriggle, J. E., 5C21
 Spring, A., 4D85
 Sprissler, B., 6C58
 Spurny, K. R., 5H45
 Squella, J. A., 1E33, 1E34, 4E16
 Sreeram, S. V., 1C49
 Srinivasan, S. R., 3D183
 Srinivasulu, K., 3B73
 Sriramam, K., 4B32
 Srivastava, G., 5D207
 Srivastava, S. K., 3B62, 6B108, 6J146
 Srivastava, S. P., 1B23, 1G36
 Staats, G., 5A12
 Stabellini, G., 2D59
 Stabenova, L. A., 5B33
 Staber, G., 2D23
 Stach, J., 4B124
 Stachowiak, Z., 6B58
 Stadius, M. A., 1C111, 3J87
 Staedeli, W., 3J99
 Stafford, D. T., 2E10, 5D24
 Stahel, O., 1D50
 Stahl, E., 4F69
 Stahlberg, R., 3B19, 6B23, 6B132
 Stahovec, W. L., 2C26
 Stahr, H. M., 1G22
 Staiger, D. B., 3E9
 Stalenhoef, A. F., 4D265
 Staley, R. H., 2J129
 Stamer, J. R., 3F51
 Stamov, S., 4B148
 Stamp, J. J., 2E30
 Stan, H. J., 5F20
 Stancher, B., 1F32, 3F53, 4F11, 5F73, 6F44
 Stancic, B., 1E62
 Standefer, J. C., 2D267
 Standzenieks, P., 4H3
 Stanin, V. V., 6C50
 Stanisewska, E., 3E46
 Stankiewicz, G., 4B187
 Stankovic, B., 1D101, 1E74, 2E55, 4D126, 6B31
 Stanley, R. L., 3D7
 Stanley-Wood, N., 5A5
 Stansfield, D. A., 5D188
 Stara, V., 1B100, 4C74
 Starchevska, N. K., 5E45
 Starikova, L., 3A14
 Starka, L., 6D67
 Starke, K., 2J137
 Starobinets, G. L., 1B67, 1J191, 2C37, 2J169, 3C36
 Staroscik, R., 6J158
 Starova, G. L., 1B157
 Starr, C., 1G6
 Stasiek, A., 4J26
 Stasiowski, P., 5D30
 Stastny, M., 2J36
 Staszewski, R., 6H3
 Statland, B. E., 3D50
 Stavchansky, S., 6D94, 6E39
 Stavric, B., 5D29
 Stavrou, A., 4E89
 Stec, J., 4B137
 Stedman, D. H., 1H21, 5H15
 Steegmans, R., 2H58, 2H61
 Steel, C. P., 5H87
 Steele, E. A., 5B182
 Steele, K. D., 1D127
 Steele, T. W., 4B90
 Steele, W., 2D19
 Steele, W. F., 1J63
 Steelmack, M. L., 3J4
 Stefanini-Oresic, L., 3A16
 Stefanov, A. V., 3G8
 Stefanov, R., 4J81
 Stefek, M., 6D99, 6E45
 Stegink, L. D., 3D209
 Steglich, F., 3B19, 6B23, 6B132
 Stegmann, R., 1J100
 Stegnaich, S., 6D65
 Stehle, G., 3D229
 Steidl, G., 3B72
 Steigstra, H., 2J12
 Stein, A. F., 5F36
 Stein, W. M., 1G8
 Steinberg, K. K., 3D263, 3D264
 Steinbrecher, K., 5E32
 Steindel, S. J., 2D20
 Steiner, W., 6F40
 Steinmann, L., 2C68
 Steinmaus, H., 6D218
 Steinwandter, H., 2C130, 2F21
 Stejskal, M., 5C59
 Stelzner, A., 3D305
 Stenman, U. H., 2D255
 Stentzel, I. I., 1J7, 3H32, 6C14
 Stepan, J., 2D297
 Stepanek, J., 3E79
 Stepanenko, V. E., 3J60
 Stepanenko, V. I., 3C114
 Stepanov, S. V., 4D158
 Stepanova, A. G., 3C99
 Stepanova, N. L., 3G8
 Stephenson, G. B., 5J98
 Stepniowski, M., 4B110
 Sterkowska, W., 1E30
 Stern, P., 3D85
 Stern, R. M., 2B127
 Sternberg, R., 2J174
 Sternson, L. A., 4D119, 4D120, 4D280, 5D74, 6D133
 Steudler, P. A., 1H68
 Stevens, J. F., 6D13
 Stevens, R. G., 4E20
 Stevens Mees, F., 5H41
 Stevenson, G. W., 2D12
 Stevenson, J. J., 3B165
 Stevie, F. A., 2D97
 Stewart, J. W. B., 1G12
 Stewart, M. J., 6D122
 Stewart, S. P., 1H71
 Steyaert, H. L., 1J182
 Stihapit, P. R., 1D40
 Stijve, T., 4F50
 Stiller, C. R., 2D74
 Stine, G. Y., 2C87
 Stinger, G., 3B4
 Stirks, O., 3A14
 Stochalski, A., 6B185
 Stock, J. T., 1A5
 Stockhausen, H., 3D194
 Stockigt, J. R., 4D224
 Stockton, R. A., 2J35
 Stoclin, B., 6F69
 Stoeppler, M., 4D45
 Stoev, G., 5J84
 Stoeffels, J. J., 1B150
 Stogniew, M., 2D68, 3D151
 Stokes, E. L., 5H12
 Stokes, J. D., 3G29
 Stolyarov, K. P., 1B68, 5B134
 Stone, B. A., 2D119, 2D120, 6D152
 Stonys, D. B., 1E68
 Storey, G. C. A., 1D87
 Story, J. N., 6B125
 Story, M., 2C12
 Storz, G., 2D25
 Stouffer, J. R., 1F19
 Stout, R. W., 1C111, 5J41
 Stout, S. J., 4J111
 Stovbur, V. I., 6B71
 Straka, J. G., 5D228
 Strakova, A., 2E56
 Stralfors, P., 3D242
 Strandberg, M., 1E66
 Strandbergh, D. R., 3D167, 6D44
 Stransky, Z., 1C124
 Strasberg, P. M., 4D232
 Strasburger, C. J., 6D8
 Strassheim, A., 5B174, 5J129, 6J93
 Strating, J., 6F60
 Strauss, J. A., 6J94
 Straussova, K., 3D217
 Strecker, G., 5D172
 Street, J. M., 5D116
 Street, K. W., jun., 3J4
 Street, T. L., 4D101
 Streitberger, I., 4D266
 Strelow, F. W. E., 2B56, 6B2
 Streubel, P., 2J133
 Strickland, A. L., 6D248
 Strickland, D. M., 6D169, 6D170
 Strisukh, D., 2C13

- Stritzinger, H., 1F25
 Strnadova, J., 1H83
 Stroba, A., 6B38
 Strobel, R. A., 1C5
 Strobel, W., 2C88
 Stroemme, J. H., 6D287
 Stroinska, M., 6C87
 Stromme, J. H., 2D284
 Strop, P., 2J44, 5D155
 Strumeyer, D. H., 5D163
 Strunin, L., 3D86
 Strupp, P. E., 5H103
 Strupp, D., 1G1
 Strusinski, A., 3G16
 Struy, H., 3D249
 Stryjewska, E., 2H95
 Stuber, H. A., 3H78
 Studlarova, V., 4B183
 Stufka-Olczyk, J., 6H26
 Stukas, V. J., 6H39
 Stukel, J. J., 3J159
 Stulik, K., 4D291, 5B10, 6J37, 6J133
 Stults, J. T., 3J124
 Stump, C., 4J122
 Sturgeon, R. E., 2J104, 5H49, 6B101, 6H46
 Sturges, W. T., 1H22
 Sturley, H. N., 1D48
 Sturrock, P. E., 3J144
 Stutting, H. H., 2J168
 Stuurman, H. W., 1C42
 Stuyfzand, P. J., 4H32
 Stuyt, P. M., 4D265
 Su, S. Y., 3J88
 Suarez Canga, J., 4C38
 Subba Rao, C., 4B91
 Subba Rao, M., 6B82
 Subba Rao, Y. V., 1B117
 Subbotina, T. K., 5C7
 Subert, J., 6E46
 Subibayashi, K., 3F52
 Subramanian, K. S., 3D35
 Subramanian, M. S., 1B18, 2B85, 2B107, 4B180, 6B42
 Subramanyam, C., 4B116
 Suchocki, P., 3D210, 3E27, 3E29
 Suckow, R. F., 6D58
 Sudo, A., 1D158
 Sudo, E., 1B160, 1B179, 2B150
 Sudraud, P., 6F68
 Suess, J., 3D305
 Suga, M., 2J149
 Sugano, H., 3D221, 5D150
 Sugawara, E., 2D250
 Sugaya, I., 4B60
 Suggs, J. C., 4H13
 Sugii, A., 1C20, 1C33
 Sugimae, A., 1H26
 Sugimoto, T., 2D141
 Sugimoto, Y., 4D217
 Sugimura, Y., 4H51
 Sugisawa, K., 5F9
 Sugitani, A., 4F38
 Sugitani, Y., 2B52, 2B143
 Sugiura, M., 1D147, 1D259, 3D260
 Sugiura, S., 1H86
 Sugiyama, T., 4G14
 Sugnaux, F. R., 2D87
 Suh, S. Y., 1J109
 Sui, N., 4E40
 Sui, Z., 1C58
 Suk, V., 2B164, 4B196
 Sukegawa, K., 4F48
 Sukhan, V. V., 5B23, 5B47
 Sukhoparova, V. P., 2G10
 Sukhoverkhov, C. D., 2C77
 Sukiasyan, A. N., 6B26
 Sukkel, J. T., 5J83
 Sulaiman, S. T., 6C19
 Sule, U. A., 4E4
 Suleimanova, N., 3G18
 Sullivan, G., 3C87
 Sullivan, J. F., 5C5
 Sullivan, J. H., 3C84
 Sullivan, J. V., 2J96, 4B165, 5J107
 Sulochana, G., 2D193
 Sum, C. Y., 1C27
 Summan, A. M., 5F13
 Summerhays, K. D., 1J129
 Sun, C. Y., 4B213
 Sun, D., 6C22
 Sun, F., 6B129
 Sun, L., 6B104
 Sun, Shiliang, 1E41, 2E28
 Sun, Shuquin, 3E15
 Sun, Y., 6B13
 Sun, Z. L., 2C29
 Sunahori, K., 6D249
 Sundaram, P. V., 2D7
 Sundberg, M. W., 2D260, 4D198
 Sunden, T., 1B134
 Sundholm, E. G., 1E4
 Sundqvist, B., 1G4
 Sundqvist, T., 2A29
 Sunheimer, R. L., 2D241
 Sunol, C., 1D152, 3D215
 Sunouchi, M., 6D85
 Sunshine, I., 3D321B, 4D79
 Suortti, T., 5C37
 Supatashvili, G. D., 3B121
 Suphacheerabhan, S., 2D79, 4D96
 Suprunovich, V. I., 2B137, 4J129
 Suprynowicz, Z., 1J33, 4H28, 4J26
 Suprynowicz-Sienko, D., 2J30
 Suptil, J., 4H78
 Sur, J., 2H55
 Sureau, C., 6D202
 Surette, R. A., 2H8
 Surkyn, P., 3H12, 6B93
 Surman, D. J., 3J118
 Surmann, P., 5E2
 Surplice, I. M., 3D197
 Suryanarayana, A. V., 1B118, 3B104
 Susaki, K., 3D195
 Susan, A. B., 6A2
 Susi, H., 6F30
 Suskind, R. R., 3D142
 Suslova, N. G., 2B53
 Susuki, Masami, 6J86
 Suter, U., 5C3
 Suthermer, C. A., 4D79
 Sutherland, M. J., 1E42
 Sutherland, R. M., 2D252
 Suvorova, E. N., 2A20
 Suye, S., 4G14
 Suzaki, K., 4D173
 Suzuki, F., 3D317
 Suzuki, H., 3B100
 Suzuki, K., 4B166
 Suzuki, Makoto, 5E22
 Suzuki, Manabu, 6H62
 Suzuki, Masao, 4C11
 Suzuki, N., 6C30
 Suzuki, O., 2D106, 3D140
 Suzuki, Shigetaka, 1C50, 2J173, 3C5, 4B135, 4B136, 6B157
 Suzuki, Shogo, 5F49
 Suzuki, Shuichi, 3B100, 6J13
 Suzuki, Tatsuo, 3D281
 Suzuki, Tokio, 5B17
 Suzuki, T. M., 3J41, 6B137
 Suzuki, Yohichi, 4C30
 Suzuki, Yoshimi, 4H51
 Suzuki, Yukio, 6H16
 Svec, A., 4J139
 Svec, H. J., 4H27, 4H42
 Svediene, N., 4B74, 4E33
 Svehla, G., 1J94B, 2C131B, 2H41, 2J13B, 2J154B, 3G20, 4A17, 4J144B, 5A32B
 Svejda, H., 2B173
 Svenneby, G., 6D52
 Svensson, C. K., 1D100
 Sverdrup, G. M., 2H22
 Sveshnikov, G. B., 3J72
 Sviderskii, M. F., 3G17
 Sviridenko, V. G., 2D39
 Vitova, I. R., 6B26
 Svoboda, M., 4J59
 Svobodova, X., 4J59
 Swansiger, J. T., 2C86
 Swanson, L. W., 3D13
 Swarin, S. J., 3H30
 Swaroop, P. A., 3C33
 Swartz, M., 5C24
 Swarup, R., 5B86
 Sweet, T. R., 3B13
 Swindall, W. J., 6B158
 Sybilka, D., 1C1, 2C51, 5C31
 Sybrecht, G. W., 5D33
 Sykes, D. E., 2D282
 Sykut, S., 4D35
 Symersky, J., 5C74
 Syskova, V. P., 1B138
 Syty, A., 5G15
 Szabelska, B., 1E16
 Szabo, A., 4D2
 Szabo, L., 3D247
 Szabo, V., 1C63
 Szacki, W., 1B192, 1B193
 Szalai, H., 4C17
 Szalma, E., 3E11
 Szaniawska-Dekundy, D., 1E47
 Szasz, G., 1E40
 Szczepaniak, W., 2J65
 Szczepanska, H., 4F65
 Szeci, P. B., 6D288
 Szekely, A., 2C79
 Szekely, G., 4J79
 Szekely, Z., 3B105
 Szep, Mrs. I., 3F13
 Szepes, L., 2C79
 Szepesi, G., 2E27
 Szweczyk, B., 4D146
 Szweczyk, H., 3C94, 6C69
 Szivos, K., 3B46
 Szokfalvi-Nagy, Z., 6F25
 Szrajber, Z., 3E27, 3E28, 3E29
 Szucs, M., 4C44
 Szulc, J., 6J59, 6J60
 Szwajca, T., 3D284
 Szymanowski, J., 3C94, 6C69
 Szyzko, E., 1D67, 2E51, 3E59, 3E60, 3E61, 4D113
 Tabakova, O. M., 5H57
 Tabet, J. C., 1D252
 Tabor, M. W., 3D142
 Taborsky, G., 5D152
 Tachibana, M., 2C54, 4C43
 Tachibana, S., 1D209
 Tachikawa, E., 6B167
 Tada, Y., 5B3
 Tadera, K., 3D152
 Tadoros, F., 3C14
 Tadoros, N. B., 4E76, 4E78
 Taguchi, H., 5D124
 Taguchi, K., 2D55
 Taguchi, Y., 5D127
 Tahara, T., 2C8
 Tainov, A. V., 2C72
 Tajima, K., 2F8
 Tajima, M., 2B88
 Tajima, Y., 2C123
 Tak, T. C., 5H44
 Takabatake, E., 3C41, 4D117
 Takacs, F., 1D81, 1D82
 Takacsi Nagy, G., 3E63
 Takada, K., 4B112, 5B101, 5B102
 Takadate, A., 2C8
 Takagi, M., 1D209
 Takagi, Makoto, 2C84, 4A7, 5B11
 Takagi, T., 3D198
 Takahashi, Akinori, 1B116
 Takahashi, Akira, 3C109
 Takahashi, L. T., 6E64
 Takahashi, M., 2D118, 5D119, 6D200
 Takahashi, S., 1D73
 Takahashi, T., 1B160
 Takahata, J., 5F39
 Takai, R., 3C22
 Takai, S., 2D232
 Takai, Toshiyuki, 1D239, 6D259
 Takai, Tsuneo, 3D261
 Takamatsu, T., 4D256
 Takamiya, K., 5C92
 Takamiya, S., 4D328, 6D286
 Takemura, K., 4D154
 Takanaka, A., 6D85
 Takano, S., 4C64
 Takao, Y., 6C66, 6C67
 Takase, I., 1D110
 Takase, T., 1C44
 Takashima, Y., 2B125
 Takashina, T., 2C73
 Takasu, A., 3D71
 Takayanagi, K., 4H62
 Takeda, Y., 6D197
 Takehara, M., 6D285
 Takei, G. H., 5D84
 Takeno, K., 3G27
 Takeoka, G., 4J66
 Takeshita, R., 1C65, 3H90
 Takesue, Y., 2D250
 Takeuchi, T., 1J29, 2J32, 3C115
 Takeyama, S., 4B178
 Takikawa, H., 3D196
 Takitani, S., 4C11
 Takizawa, R., 5H63
 Talafant, E., 4D269
 Talan, P., 5D145
 Talegaonkar, J., 4C3, 4C15
 Talipov, Sh. T., 6B175
 Talka, E., 2H103, 3H100
 Tallent, C. R., 4D70
 Tallman, D. E., 2H32
 Talmi, Y., 6J69
 Talwar, I. M., 5F45
 Talway, D., 4D278
 Tam, G. K. H., 6C29
 Tam, K. K., 5J10
 Tam, T. M., 4B44
 Tamari, Y., 1H49
 Tamase, K., 5F35
 Tamenori, H., 6J1
 Tameto, K., 1D83
 Tammimga, Y., 1J176
 Tamura, H., 6D24
 Tamura, Hifumi, 3J103
 Tamura, S., 1B80
 Tamura, Toshihide, 5D127
 Tamura, Toshiaki, 2D187
 Tamura, Y., 4D161
 Tamura, Z., 1D243, 2C39, 4C20, 4D116, 4D196, 6D72
 Tan, G., 4J130
 Tan, H. S. I., 5E37
 Tan, Z., 1B121
 Tanabe, K., 3H89
 Tanabe, S., 1D39, 2D55
 Tanabe, Y., 2E31
 Tanaka, A., 2H70
 Tanaka, E., 3D80
 Tanaka, F., 1G11
 Tanaka, H., 4F8
 Tanaka, I., 1B168
 Tanaka, K., 1D124, 1D209
 Tanaka, Kanako, 2D55
 Tanaka, Kay, 4D152
 Tanaka, Kazuyoshi, 2B109
 Tanaka, Makoto, 4A8
 Tanaka, Masaya, 3B27, 3B130
 Tanaka, Motoshi, 6D249
 Tanaka, O., 4E19
 Tanaka, Shigemichi, 4D231
 Tanaka, Shigeo, 2H66
 Tanaka, Shigeyuki, 1J139
 Tanaka, Shunitz, 1B37
 Tanaka, Takashi, 6D249
 Tanaka, Takeshi, 1D43
 Tanaka, Toshiyuki, 4D24
 Tanaka, Y., 4F8
 Tananaiko, M. M., 3B148, 4B190
 Tanase, I., 5B153
 Tanayama, S., 2D15
 Tanczos, A., 6B154
 Tandon, A. K., 3B136, 4B171, 4B172, 4B173, 4B174, 4B208
 Tandon, S. G., 2B45
 Tandon, S. N., 3B54
 Taneva, E., 3B115
 Tang, D., 2B102
 Tang, F., 1D35
 Tang, J.-J., 3H53
 Tang, J. I. S., 1H91
 Tang, M., 5J43

- Tang, Q., 4J34
 Tang, S., 3B116
 Tanggo, Y., 4D263
 Tani, K., 1J139
 Tanigawa, K., 5F35
 Tanigawa, M., 2E53
 Taniguchi, H., 5F49
 Taniguchi, Y., 4H64
 Tanii, E., 2C39
 Tanimura, Takenori, 1C29
 Tanimura, Toshifumi, 6D233
 Tanimura, Y., 4D116
 Taniuchi, T., 2B86
 Tanizawa, K., 4D328, 6D286
 Tanizawa, O., 2D224
 Tanner, H., 1F50
 Tanner, P., 2D255
 Tanner, R. J. N., 1D86
 Tanner, R. L., 1H20, 3H35, 3H42, 6H15
 Tanner, S. D., 3D11
 Tanner, S. F., 6F20
 Tanner, T. M., 3B49
 Tannert, U., 3C91
 Tantaoui-Elaraki, A., 4F75
 Tanuma, S., 4J82
 Tao, D., 1H64
 Tao, H., 6G7
 Tapanes, R., 2F43
 Taraba, B., 6C72
 Tarandzhiiska, R., 4C2
 Taranenko, N. A., 5H34
 Tarapchak, S. J., 5H69, 5H70
 Tarasiewicz, M., 3E46, 6B136
 Tarasov, B. P., 2C17
 Tarasova, L. V., 6E43
 Tarasova, N. S., 4B179
 Targa, G., 1E67
 Tarka, S. M., jun., 6F52
 Tarli, P., 1D266, 5F32
 Tarr, G. E., 5D156
 Tarroni, G., 1H6
 Tarutani, T., 1H62, 4B108
 Tas, A. C., 6J118
 Tasheva, B., 3D241
 Taskaev, E. A., 6B92
 Tasker, R. F., 6B162
 Tassa, M., 1D16
 Tatar, V., 1H83
 Tateo, F., 6F65
 Tatsukawa, R., 2D105, 6H59
 Tatsumi, K., 4B56
 Tatsuno, T., 4G5
 Taube, C., 3D166
 Tavadyan, A. S., 5B163, 6B40, 6B175
 Tavakkol, A., 6D195
 Tavener, A., 5J4
 Tavoloni, N., 4D316
 Tawa, R., 5D75
 Tawakkol, M. S., 6E62
 Taylor, A. F., 4B94
 Taylor, C., 4C77
 Taylor, D. R., 1C3, 1J40
 Taylor, G. N., 5C81
 Taylor, H. E., 2H46
 Taylor, J. K., 3J1
 Taylor, John Keenan, 5A9
 Taylor, J. R., 6C59
 Taylor, J. S., 3G27
 Taylor, K. E., 2D163, 4D142
 Taylor, L. C. E., 3B171
 Taylor, L. T., 5C65, 5J49
 Taylor, M., 1H15
 Taylor, M. C., 3A17
 Taylor, M. L., 2H36
 Taylor, P., 5J130
 Taylor, R. B., 6D95
 Taylor, R. H., 2D108
 Taylor, R. L., 1D75
 Tchaplal, A., 4J35
 Teague, R. T., jun., 5G23
 Teien, G., 4D156
 Teijgeler, C. A., 4E81
 Telfer, A. R., 2J41
 Tellerova, K., 4D226
 Telly, V. Yu., 1C62
 Temmerman, I., 1J79
 Tempel, A. S., 2D130
 Tempesta, D., 6D185
 Tench, D., 1B40
 Tenczer, J., 2D64
 Teng, C. M., 4D103
 Ten Noever de Brauw, M. C., 3J115, 6J118
 Tenorio, M. D., 4F44
 Tepla, Z., 4G1, 6B57
 Tepper, I., 6F36
 Terada, K., 4H64
 Teramae, M., 3D261
 Terano, T., 4D161
 Terashima, S., 1B48
 Terashima, Y., 5C9
 Terberova, A., 4A18
 Terhune, S. J., 5G20
 Ternero, M., 3H68
 Terouanne, B., 2D31
 Tertian, R., 2J92
 Tertoolen, J. F. W., 1D249
 Terwilliger, T., 5D142
 Tesarova, E., 6C33
 Teske, G., 2H40
 Tessier, A. M., 2F17
 Testa, A., 1D6
 Testolin, G., 2F34
 Tett, P., 4D276
 Tettamanti, G., 3D174, 3D175
 Tevaarwerk, G. J. N., 3D270
 Tevlin, A. B., 5D135
 Thain, M. E., 6J93
 Thakrar, H., 2D9
 Thalib, A., 4J20
 Thanos, A., 2F13
 Thapon, J. L., 3F29
 Thelamon, C., 4H14
 Thelander, S., 1E66
 Thente, K., 6G5
 Theriault, D. G., 4J21
 Theron, J. J., 3D31
 Thevenot, D. R., 2J174
 Thibert, R. J., 2D163
 Thieme, M., 6B109
 Thien, T., 1D157
 Thier, H. P., 2F11
 Thierig, D., 3B145
 Thierry-Palmer, M., 6D267
 Thijssen, H. H. W., 6D126
 Thimmaiah, K. N., 5B155
 Thind, P. S., 4E70, 5E7
 Thom, A., 4D337
 Thomann, R., 1F15
 Thomas, A., 1B93, 6B33
 Thomas, J., 1E25
 Thomas, J. D. R., 3D44, 3J135, 6J139
 Thomas, L., 2D25
 Thomas, L. C., 3J54
 Thomas, R. E., 2H99, 2H108, 3H94
 Thomason, M. M., 1J87
 Thomassen, Y., 6D41
 Thompson, A., 5D86
 Thompson, C. M., 2C76
 Thompson, E. J., 5D158
 Thompson, G. A., jun., 1D131
 Thompson, G. E., 5B67
 Thompson, H. C., jun., 1D106, 4G12
 Thompson, J. A. J., 1D195
 Thompson, J. J., 4J105
 Thompson, J. N., 6F7
 Thompson, M., 5J14
 Thompson, R. Q., 2J8, 5D91
 Thomsen, E., 2B127
 Thomson, A. B., 4F40
 Thomson, B. A., 1J173, 3D11
 Thomson, Bruce A., 4D51
 Thomson, B. M., 4D112
 Thorne, A. P., 2J97
 Thorne, G. C., 2D173, 6D193
 Thornley, G. D., 2H29
 Thorpe, C. W., 5G21
 Thorpe, S. R., 6D248
 Thouvenot, D., 6D136
 Thrivikraman, K. V., 4D150
 Throm, H. R., 4F41
 Thrun, K., 2J76
 Thuaud, N., 1D193
 Tibbetts, D. L., 3E50
 Tibi, L., 1D226
 Tichy, J., 4D165
 Tideman, A. M., 1D225
 Tidwell, D., 3D113
 Tie, A., 5B45
 Tieber, V. L., 1D52
 Tiernan, T. O., 2H36
 Tiessen, H., 1G12
 Tiggelman, T. A., 6J109
 Tijhuis, M. W., 2D96
 Tijssen, P., 3D238
 Tijssen, R., 5J25
 Tikhomolov, A. A., 5H4
 Tikhonov, V. N., 1A17, 1B13, 1B69, 1B70, 5B9
 Tilders, F. J. H., 2D191
 Timerbulatova, M. I., 3B168
 Timinskii, Yu. A., 3B55, 3H49
 Timnick, A., 1J133
 Timofeev, Yu. M., 4D158
 Tinch, W. C., 2H104, 6H75
 Tindall, F. M., 6B75
 Tinguely, D., 2D84
 Tinsley, I. J., 4D155
 Tipper, P., 2D19
 Tiralti, M. C., 1E56
 Tishchenkova, I. A., 5H37
 Tishchuk, V. V., 3H32
 Tislaric, D., 6D189
 Titarenko, T. A., 5B147
 Tittarelli, P., 4C71
 Tittel, G., 3E19
 Tivert, A. M., 3D73
 Tiwari, K. K., 6C27
 Tiwari, K. P., 1C12
 Tjaden, U. R., 2D201, 5E20
 Tjessem, K., 1C72
 Tkachenko, S. M., 3B16
 Tkachev, Yu. A., 1J97
 Tobino, T., 1C20
 Tobler, M., 6F45
 Tocksteinova, D., 1C31
 Toda, A., 4B167
 Toda, S., 1B141
 Todd, P. J., 2J136
 Todorovic, M., 1C75
 Todorovskii, D., 3B115
 Todradze, G. A., 3B148, 4B190
 Toedter, F., 5D3
 Toei, K., 1B116, 3H50, 3H60, 4H50, 5H68
 Toffaletti, J., 4D199
 Togami, D., 1H56
 Tohyama, S., 6J81
 Toida, T., 1D39, 2B144
 Tokarz, A., 2H35
 Tokunaga, H., 2E37
 Tokunaga, Y., 2C28
 Tokuya, T., 3C109
 Tolan, J. S., 6B27
 Tolentino, D., 1D59
 Tolmachev, V. N., 1J60
 Tolmacheva, V. A., 2C119
 Tolstova, T. S., 6C25
 Toma, P. M., 2D59
 Toman, J. J., 6J167
 Tomar, Y. P. S., 1B180
 Tomasetti, M., 5E19
 Tomashik, V. N., 3B177
 Tomashik, Z. F., 3B177
 Tomas Martinez, V., 2B17
 Tomasetti, M., 1E12, 2E26
 Tomer, K. B., 3D224, 4J116
 Tomer, R. K., 2C58
 Tominaga, M., 4B15
 Tominaga, S., 3J133
 Tominaga, T., 4H20
 Tomita, H., 4J17
 Tomita, Hiroshi, 4B118
 Tomlinson, E., 6E1
 Tompkins, D., 4D199
 Tondeur, Y., 1C126, 4C10
 Tondre, L., 5D161
 Tonelli, D., 2E9, 4E77, 5D98
 Tong, M., 2B59, 3F4
 Tong, S., 3A6
 Toninelli, G., 4C65, 4G23
 Tonino, G. J., 4D144
 Tonks, D. B., 5D180
 Tonnesen, H. H., 4F12
 Tonnet, M. L., 3G3
 Tonogai, Y., 2F7, 2F8, 2F9
 Tonska, S., 1E30, 1E54, 3E5
 Tontarski, R. E., 1C5
 Toppino, P. M., 1F30
 Torgov, V. G., 4B49
 Toribio, F., 1B26
 Torii, H., 2D15
 Torkos, K., 2C79
 Torok, I., 3E16
 Torok, S., 6F25
 Toropov, L. I., 1B59, 5B58
 Toropova, V. F., 1B36, 5B117
 Torrence, P. F., 3D313
 Torres, A., 2D107
 Torsi, G., 2H13
 Tortoreto, M., 6D134
 Tosoni, S., 6D71, 6D73
 Toth, G., 1D9
 Toth, J., 3B137, 3B138, 3B139
 Toth, K., 1E5, 6J127, 6J128
 Totir, N. D., 5B118, 5B153, 6B117
 Totte, J. A., 5D46
 Tou, J. C., 2J150
 Touchstone, J. C., 2D156, 3D320B
 Tovarek, J., 4D269
 Tovar-Grau, J., 3H47
 Towers, G. H. N., 4D149
 Towles, D. G., 6C35
 Townsend, L. B., 1D240
 Townshend, A., 3J85, 6J18
 Townshend, J. L., 1G37
 Toyoda, M., 2F7
 Toyoda, T., 3F54
 Toyoka, T., 2C10
 Toyooka, T., 1D174, 5D117
 Traag, W. A., 6C90
 Traba, M. L., 2D145
 Traeger, H., 6B94
 Trafford, D. J. H., 1D137, 5D116
 Traill, M. A., 2D165
 Trailter, H., 2F40, 2J62
 Traldi, P., 1J156, 1J169, 2C36, 3J121
 Tran, K. C., 5D103
 Tran Dai Nghiep, 4B88
 Trask, T. O., 5J137
 Traud, J., 6D156
 Trautschoeld, I., 5D149
 Trautwein, E., 1F27
 Trautwein, N. L., 3G31
 Traversi, A. L., 1F30
 Travis, E., 5J10
 Travis, J. C., 3J86, 4J114
 Travnikoff, B., 4E13
 Traylor, R. D., 3D173
 Trazza, A., 1H54
 Tredoux, M., 3B12
 Treffner, E., 3D128
 Tremmel, F., 5D85
 Tremper, K. K., 2D57
 Tret'yakova, M. I., 5H100
 Treutler, H. C., 1J180, 6B89, 6B91
 Trevisani, G. R., 2G11
 Trevor, S. C., 2D77
 Treybig, D. S., 6C5
 Trieff, N. M., 4A16
 Tripkovic, M., 1C75
 Triplett, D. A., 6D235
 Trisler, F., 1C30, 3B46
 Trischmann, H., 5D89
 Tritsch, G. L., 3D312
 Tritthart, P., 4C40
 Trivedi, S. M., 6D247
 Trnovec, T., 1D57, 4D108, 6D99
 Trofimov, N. V., 6B115
 Troitskaya, N. N., 2C126, 3C117
 Trojer, L., 6J58
 Tronchet, J., 4D64
 Troshina, G. A., 6J136
 Trubachev, A. V., 2B132
 Truex, C. R., 2G7
 Trugo, L. C., 3F43

- Trulachev, G. M., 4J102
 Trusova, L. N., 2H10
 Trutneva, L. M., 4B203
 Tsai, F. H., 4D176
 Tsalev, D., 1G15
 Tsang, F. Y., 2B81
 Tsanov, T. V., 4J81
 Tsar'ev, V. I., 2J109
 Tsaturyan, M. G., 5J16
 Tsau, J., 4E2
 Tschida, J., 4J75
 Tse, R. S., 3J100
 Tsebriya, L. S., 3B114
 Tsegemidis, T., 4D143
 Tsekova, T., 6C16
 Tseng, A., 2C24
 Tserng, K.-Y., 3D185, 6D59
 Tseveen, Z., 5B55
 Tsubul'skii, V. V., 1J21
 Tsingarelli, R. D., 5H57
 Tsinovoi, Yu. N., 2C72, 5C25
 Tsitsishvili, G. V., 3J53, 5J93
 Tsubouchi, M., 1C90, 5C69, 6C68
 Tsuchida, H., 6J33
 Tsuchida, T., 2D204
 Tsuchiya, Hironobu, 1D47
 Tsuchiya, Hironori, 5D99, 6D208
 Tsuchiya, N., 6B114
 Tsuchiya, Y., 1C65
 Tsuge, S., 5C88
 Tsubako, M., 5B115
 Tsuiki, M., 3D72
 Tsuji, A., 3D190, 3D191
 Tsuji, H., 1H49
 Tsuji, J., 1D239, 6D259
 Tsuji, K., 4C64, 6C66, 6C67
 Tsukada, K., 3F28
 Tsukanov, Yu. V., 4E33
 Tsukida, K., 2D274
 Tsumagari, N., 2E53
 Tsuranov, A. P., 1B205
 Tsuzuki, N., 6C61
 Tsvetkov, V. A., 5J6
 Tsyganov, A. R., 1B67
 Tuan Vo Dinh, 6H2
 Tubb, R. S., 1F45
 Tucek, E., 2C108, 2C120, 5C83
 Tuchman, M., 6D165
 Tucker, E. E., 1A23
 Tucker, R., 3H61, 3H62
 Tuemmers, M. H., 2D83
 Tufto, P. A., 1J4
 Tuinstra, H. E., 5J63
 Tuinstra, L. G. M. T., 6C90
 Tuisel, H., 2C101
 Tulepova, I. V., 4B184
 Tulley, R. T., 2D162
 Tulupov, P. E., 3J39
 Tulyupa, F. M., 5A6
 Tumanova, A. N., 2B166, 3B90
 Tunick, M., 5C71
 Tunlid, A., 1D119
 Turchi, G., 5D189
 Turcotte, C., 4E38
 Turcotte, J., 3H43
 Turecek, F., 1J171
 Tureeva, G. M., 5E47
 Turel Culas, R. M., 3B151
 Turkadze, G. G., 5B38
 Turkin, Yu. I., 3J72
 Turko, B., 2H18
 Turnbull, A. C., 1D258
 Turnell, D. C., 1D267, 2D77, 2D209
 Turner, A., 5E41
 Turner, D., 1J28
 Turner, P. J., 3J104
 Turner, R., 4D234
 Turner, Z. J., 4D43
 Turoska, V. E., 3H99
 Turov, G. I., 1C74
 Turulina, O. P., 2B105
 Tusa, J., 4J38
 Tuschall, J. R., jun., 4H81
 Tusell, J. M., 1D152, 3D215
 Tusi, J., 5F5
 Tuttlebee, J., 2D218, 2D222
 Tutunaro, I., 3B88
 Tuvel, M. E., 4C63
 Tvrticka, E., 4D162
 Twibell, J. D., 3C119
 Twine, M. E., 1D238
 Tyagi, A., 5B36
 Tyagi, R. P., 5B36
 Tyczynski, T., 1E50
 Tyras, H., 6H26
 Tyrin, V. I., 2J186
 Tyson, J. F., 1B166, 1J117, 2J99
 Tyukavina, N. A., 6D154
 Tzeng, M.-C., 2D235, 4D245
 Ubbink, J. B., 1D215
 Uccella, N., 4C6
 Uchida, H., 2J120, 4J90, 5J132
 Uchida, M., 4B14
 Uchikawa, H., 6B196
 Uchikura, K., 2D144
 Uchimura, H., 1D124
 Uchino, H., 6C61
 Uchiyama, K., 4J132
 Uchiyama, K., 6F51
 Uchiyama, S., 6F51
 Udagawa, M., 5D177
 Udarov, B. G., 5C48
 Uddin, Z., 4D5
 Uden, P. C., 2H102, 2J72, 5C61
 Udristi, R., 3B128
 Udris, N. V., 5C41
 Ueda, E., 1D43
 Ueda, J., 2B55
 Ueda, Takao, 6D66
 Ueda, Teruhisa, 5J35
 Uemasu, I., 2A24
 Uemichi, Y., 5C79
 Ueno, K., 2C84, 4A7, 4B121, 5B11
 Uesugi, K., 4B92
 Ueta, N., 4F72
 Ueyama, I., 1D110
 Ughetto, L., 3G2
 Uhara, Y., 4J17
 Uhde, W. J., 2F49
 Uhlig, E., 1B3
 Ukhanova, I. S., 2B64
 Ulakhovich, N. A., 3B153, 5B142
 Ul-Haq, F., 6J124
 Ullman, A. H., 2C34, 3C23
 Ulsaker, G. A., 4D156
 Ul'yanova, T. M., 3H49
 Umagat, H., 1J56
 Umemura, K., 6D66
 Umetani, S., 1A9, 1H45, 5B79
 Umetskaya, M. N., 5H4
 Umezaki, Y., 1H48, 4B15
 Umezawa, Y., 2A24
 Umhauer, H., 6J174
 Umland, F., 1H53
 Umoto, F., 1D43
 Unadkat, J. D., 5E25
 Underwood, L. E., 1D189
 Une, I., 6D101
 Une, M., 3D192
 Unger, K. K., 1D173, 1J41, 4J29, 4J33, 5J34
 Unger, M., 2B108
 Unger, M. A., 2H82
 Unger, R. H., 2D230
 Uno, K., 2C96, 2C97, 4F14, 5E22
 Uno, T., 1D153
 Untermyer, S. H., 6B77
 Upadhyay, R. K., 1B20
 Upadhyaya, J. S., 1C52
 Urano, K., 6H49
 Urbano, E., 4C9
 Urdal, K., 1C61, 2D284, 5H85, 6C83
 Urdal, P., 2D284
 Ure, A. M., 1D24, 2G3, 3J74
 Uribarri, J., 6D33
 Urovskii, L. F., 3C39
 Usami, E., 2D296
 Usanova, N. V., 2B166
 Usatenko, Yu. I., 1B152, 1B174, 4B156, 4B199
 Usher, C. D., 1A21
 Ushigusa, T., 3F54
 Ushio, K., 2D262, 3D136
 Usmanova, M. M., 2B94
 Usova, E. P., 3C43
 Ustynuk, T. K., 4D158, 6D168
 Usui, Y., 2D90
 Utevskaia, L. A., 5D138
 Utsumi, S., 2H66
 Utter, J., 5D67
 Uusheimo, K., 2B76
 Uwamino, Y., 5J126
 Uzaki, M., 5H86
 Uzawa, A., 2H49
 Vaccaro, J. R., 5H18
 Vacek, P., 4D269
 Vacik, J., 4J59
 Vader, H. L., 4D26
 Vaganov, P. A., 6B7
 Vahtila, S., 4H39
 Vail, E. I., 3B114
 Vaisanen, M. V. T., 5D210
 Vajand, V., 1A19
 Vajta, S., 6D93
 Vakili, B. B., 4B188
 Vakorina, T. I., 6C18
 Valcarcel, M., 1A10, 1A11, 1B26, 1F5, 2B27, 2B116, 3B52, 3B97
 Valdehita, M. T., 4F44
 Valencia, M. E., 4F39
 Valenta, P., 4H36, 6H36, 6H37
 Valentine, J. L., 4D97, 4D128
 Valentour, J., 6D98
 Valentova, O., 6F23
 Valero, J., 5E31
 Valette, J. P., 4D64
 Valkier, L. J., 1J96
 Valli, A., 1D59
 Valzelli, G., 6D65
 Vamos, L., 3F13
 Van Acker, M., 2C53, 3H29
 Vanara, F., 2D59
 Van Audenhove, J., 1B55
 Van Bommel, P., 6G20
 Van Bennekom, W. P., 5E20
 Van Bevern, J., 2H77
 Van Boekel, M. A. J. S., 5F65
 Van Boxer, J., 5H7
 Van Brederode, J., 3D265
 Van Bree, J., 6C80
 Van Brunt, N., 5D59
 Van Camp, C. E., 6C53
 Vanco, D., 1B4
 Van Dalen, J. P. J., 4C22, 5J39
 Van Damme, P. S., 6C53
 Vande Castele, K., 4D270
 Vandeginste, B., 6A16
 Vandeginste, B. G. M., 4J108
 Van Deijck, W., 4D30, 6J89
 Van den Berg, J. A., 3J118
 Van den Berg, J. H. M., 1J55, 2J34
 Vanden Berghe, D., 5H75
 Van den Eijnden, D. H., 6D150
 Van den Ende, A., 6D196
 Vanden Heuvel, W. J. A., III, 3D9, 6D120
 Van den Hoed, N., 1H90
 Van den Winkel, P., 1J13, 5B116
 Vandeputte, M., 1J13
 Vanderborgh, N. E., 4B209
 Van der Doelan, A. A., 3D262
 Van der Greef, J., 3J115, 6J118
 Van der Hoek, E. W., 4D306
 Van der Houwen, O. A. G. J., 1J46
 Van der Krogt, J., 2D201
 Van der Leden, B., 2D201
 Van der Lee, J. J., 5E20
 Van der Lee-Rijsbergen, H. B. J., 5E20
 Van der Linden, J. A. A., 1J46
 Van der Linden, R., 2C115, 4C80
 Van der Linden, W. E., 1J10
 Van der Sloot, H. A., 5H104B
 Van der Verren, J., 6D55
 Vander Voet, A., 4B73
 Van der Wal, S., 1C110, 4J46
 Van der Walt, T. N., 2B56
 Van der Weyden, M. B., 3D259
 Van de Vaart, F. J., 1E2, 2E1, 5E5, 5E6
 Van de Voorde, A., 2D292
 Van de Vyver, F. L., 6D242
 Van Dijk, A., 3D68
 Van Duijn, J. W., 4E81
 Van Dyk, L. P., 5G25
 Vanecek, R., 5E9
 Van Eck, M., 4C22
 Van Eck, R., 4D22
 Van Egmond, H. P., 5F43
 Van Eikema Hommes, N. J. R., 1C55
 Van Erp, P. E. J., 4D324
 Van Espen, P., 4C5
 Van Genderen, H. H., 3D265
 Van Grieken, R. E., 1D23, 4D36, 5H75
 Van Gunten, H. R., 3B85
 Van Hal, H. J. M., 3D109
 Van Heyningen, S., 4D337
 Van Hoesele, Q. G. C. M., 3D68
 Van Houwelingen, G. D. B., 3C112
 Van Houwelingen, J. C., 6C2
 Van Kapel, J., 4D326
 Van Keirsbulck, W., 6D36
 Van Kerckhove, C., 3E30
 Van Kerrebroeck, M., 6F60
 Van Kleef, J. W., 4D105
 Van Kreveland, M. E., 5J25
 Van Lancker, M. A., 1D58
 Van Langenhove, H. R., 2C53, 3H29
 Van Leersum, L., 1D122
 Van Leeuwen, B. H., 3D226
 Van Liew, J. B., 3D255
 Van Loon, G. R., 2D72
 Van Loon, J. C., 5J111
 Van Lyssel, T., 3B82
 Van Marum, D., 1J96
 Vanness, G. F., 2H36
 Van Niekerk, P. J., 3F6, 3F44
 Vannier, M., 6J79
 Van Nieuwerkerk, H. J., 6J121
 Van Onckelen, H. A., 1D234
 Van Oort, W. J., 3D68, 5D72, 6D124
 Van Orden, D. E., 2D177
 Van Os, M. J., 1H55
 Vanpeperstraete, P. M., 4D12
 Van Puybroeck, J., 1J157
 Van Raaphorst, J. G., 5B104
 Van Roelenbosch, M., 1J79
 Van Roermund, C., 3D200
 Van Rollins, M., 2D134
 Van Rossum, G. J., 2C60
 Vansant, E. F., 2C115, 4C5, 4C80
 Van Sommeren-Zondag, D. F., 4D265
 Van Sprundel, M., 5H75
 Van Staden, J. F., 5G17, 6D205
 Van Sumere, C. F., 4D270
 Van Thiel, D., 5D168
 Van't Klooster, H. A., 6C2, 6C3
 Van't Laar, A., 4D265
 Van Uffelen, J. W. M., 5J115
 Van Valin, R., 6H32
 Van Valkenburg, C., 2D201
 Van Vark, W., 4D22
 Van Wyk, J. J., 1D189
 Vanyi, A., 5G10
 Vanysek, P., 4E25
 Vanyurkina, V. I., 5B9
 Van Zanten, A. P., 3D292
 Vargic, V. M., 4D58
 Vardanyan, A. M., 1C13
 Varga, D., 3B59
 Varga, I., 1H32, 5H25
 Varga-Puhony, Z., 2F15
 Vargo, J. D., 5C35
 Varni, P. G., 5H54
 Varkonyi, T., 4H6
 Varma, P. N., 5E18
 Varma, R., 1D206
 Varma, R. S., 1D206

- Varmuza, K., 3A28, 6A7
 Varrassi, G., 2D60
 Varriano-Marston, E., 4F29
 Varshal, E. B., 1B27
 Varshney, I. C., 3E12
 Varshney, K., 5J66, 6B148
 Varshney, K. G., 3J42, 5J66, 6B148
 Vartak, H. G., 2J45
 Vartires, I., 5B118, 5B153, 6B117
 Vasanits, D., 4C44
 Vasiashvili, L. M., 3B92
 Vasil'ev, E. N., 5B169
 Vasil'eva, M. A., 6C25
 Vasileva-Aleksandrova, P., 3E67
 Vasilikiotis, G., 3J⁴ 41
 Vasin, L. S., 1J73
 Vaskovskii, V. E., 5D217
 Vassne, A. N., 3B91
 Vasold, I., 4E6
 Vasquez, B., 2D230
 Vass, S. W., 3D149
 Vasserman, A. M., 1B128
 Vatai, E., 3B59
 Vatier, J., 5D126
 Vaughan, G. N., 3D206
 Vavra, L., 1B115
 Vazquez Roncero, A., 5F76
 Veale, H. S., 5C71
 Vecchi, E., 1J169, 3J121
 Vecchio, A. J., 4F18
 Vecernik, J., 2B78
 Veen, J. P. C., 1J96
 Veening, H., 5C21
 Veggeberg, S. K., 5D60
 Vegors, S. H., jun., 2J160
 Vejrosta, J., 6J14
 Velasco, G., 2J163
 Velasevic, K. R., 2E57
 Velich, V., 4J15
 Velikanova, L. I., 6D190
 Velisek, J., 1F26
 Velthorst, N. H., 1C55, 3C60
 Veltkamp, A. C., 3C60
 Vendt, D., 5H64
 Venema, A., 5J83
 Venema, K., 5D134
 Venkappayya, D., 4E73
 Venkataramana, P., 2B83, 6B80
 Venkateswarlu, C., 3B47
 Venkateswarlu, K. S., 4B97
 Venkateswarlu, G., 4B116
 Venturi, P., 2B103
 Verbeek, C., 1G21
 Verbiscar, A. J., 1C123
 Verbitskaya, T. D., 2C21
 Vercaemst, R., 3D264
 Vercesi, P., 2F34
 Verdiesel, H. G., 2D92
 Verdizade, N. A., 6B121
 Verebey, K. G., 1D72, 1D108
 Vereckzey, L., 4D114, 4D125
 Verenik, V. N., 4B162
 Veres, D. F., 1G37
 Vereshchagina, L. N., 4H4
 Vergechik, E. N., 4E53
 Verghese, C., 3D108
 Vergin, H., 5D79
 Verhagen, L., 6F60
 Verheggen, T. P. E. M., 5J71, 5J72
 Verkerk, R. M., 5D46
 Verlangieri, A., 6D268
 Verlinden, J., 1J157
 Verma, K. K., 2C9, 2E59, 4B117
 Verma, P., 6H24
 Verma, R. M., 3A20, 5B64, 6C27
 Vermeer, E. A., 2J59
 Vermorken, A. J. M., 2D301
 Vermuelen, G., 4E38
 Vernet-Nyssen, M., 3D49
 Vernon, F., 1J61
 Verona, E., 1B30
 Verpoorte, R., 2E72B, 5E14
 Versar-Petri, G., 1E49
 Versieck, J., 5D10
 Verzar-Petri, G., 3E11
 Verzele, J., 5J86
 Verzele, M., 1J20, 1J35, 1J79, 4C66, 5J38, 5J40, 5J86, 6F60
 Verzijl, J. M., 5E14
 Verzijl, M. J., 5E14
 Veselov, V. Ya., 3C39
 Veshchikova, N. A., 3B126
 Vesiene, T., 3B70
 Vessman, J., 3D73, 4D109
 Vestal, M. L., 4J42
 Vetrova, Z. P., 5C25, 6C28
 Vettori, U., 1J156
 Vialle, J., 4J58
 Vicar, J., 1C124
 Vicente, J., 1B52
 Vicente-Perez, S., 1B52, 1B124
 Vickerman, J. C., 3J118
 Victor, A. H., 6B163
 Victorova, E. N., 1J75
 Vidal, J. C., 1H2, 3G11
 Vidal, M. T., 2B30
 Vidaud, Z., 6F74
 Vidnes, A., 6D243
 Vidolich, J. R., 4J93
 Vidova, M., 1D116
 Vidzunaite, R., 6J149
 Vierfond, J. M., 4D59
 Viets, J. G., 1B14
 Vigh, G., 1H32, 2F15, 5C39, 5H25
 Vigneron, P. Y., 6F69
 Vijay, I. K., 3D150
 Viktorova, E. N., 2J64
 Vilchez, J. L., 5B52
 Viljoen, A. J., 5G25
 Villanua, L., 4F63
 Villate, J. T., 2H68
 Villenave, J. J., 3C113
 Vinagre, J. F., 2B140
 Vincent, B. F., 3H99
 Vincent, J. C., 1F39, 1J108
 Vincent, M., 1D126
 Vinci, G., 1D121, 2D140
 Vincieri, F. F., 2C36
 Vine, J., 6D51
 Vinet, B., 2D76, 3D95
 Viney, C., 5J3
 Vink, C. L. J., 4D26
 Vink, J., 3D109
 Vintersved, I., 3H14
 Vio, L., 5E28
 Vioque, A., 4F69
 Vire, J. C., 6F1
 Virtanen, R., 4E12
 Virtosu, D., 4D308
 Vis, R. D., 1D18
 Visan, S., 3H101, 5B85
 Visconti, A., 3G6
 Visek, W. J., 2G7
 Viski, S., 3D79
 Visscher, S. N., 4G13
 Visser, J., 6D56
 Viswanadham, P., 2C80
 Vit, I., 2J36
 Vitali, P., 1D155
 Vitarelli, P., 1B203
 Viteri, F. E., 6D244
 Vitez, J., 3B59
 Vitolo, M., 5D222
 Vitt, S. V., 4D208
 Vitter, G., 3J140
 Vitto, M., 6D132
 Vittori, O., 5J58
 Vitushkina, I. N., 6B144
 Vlachogiannis, G., 4J49, 5J62
 Vladescu, L., 5B19, 5B109, 6B106, 6B107
 Vladimirov, E. N., 6J78
 Vlasakova, V., 2D229
 Vlasov, Yu. G., 3B31
 Vlasses, P. H., 4D86
 Vlietinck, A. J., 5D46
 Vo Dac Bang, 4B88
 Voelkel, W., 4D131
 Voelter, W., 1D78, 3D63
 Vogel, J., 1F11
 Vogel, S. J., 2H51
 Voget, M., 4F23
 Vogt, C. R., 3C40
 Vogt, H., 1J155
 Vogt, J., 3J57
 Vogt, W., 1D223, 1H80
 Vohra, K. G., 6H22
 Vohra, S. K., 4J137
 Voigt, B., 1D135
 Voigt, H., 2C2, 3D135
 Voigt, M., 6F19
 Voigt, U., 1D21, 4D172
 Voigtman, E., 1J132, 2J127, 6J34
 Voitkevich, V. G., 3H11
 Volokovskii, B. F., 1B101
 Voituriez, L., 5D183
 Vojir, F., 1F6
 Vokac, E., 4D252
 Volf, R., 2J36
 Volk, J., 1D76
 Volke, J., 5E8
 Volkmann, D., 5E42
 Volkov, S. A., 6J61
 Volkova, A. I., 5A6
 Volkova, G. V., 1B187, 3B37
 Volkova, S. A., 4B54
 Volodina, I. S., 6B193
 Volont, L. A., 3D299
 Voloshina, V. V., 4B54
 Von Arb, C., 5D203
 Von Criegern, R., 3B176
 Von der Lieth, C. W., 6J101
 Von Hungen, K., 2D237
 Von Niding, G., 1H23
 Von Rickenbach, R., 1D270
 Von Schenk, H., 1D187
 Von Schivizhoffen, E., 5A8
 Von Stetten, O., 2D220
 Von Tigerstrom, R., 5D181
 Von Wandruszka, R., 3A31
 Von Wartburg, J. P., 4D310
 Voogd, C. E., 1D249
 Voogd, J., 2C60
 Voorhees, K. J., 5J94
 Vopalka, D., 2B74
 Vorbrodt, Z., 5B158
 Vordermaier, G., 2C129
 Vorob'ev, M. M., 4D208
 Vorontsov, A. M., 6D190
 Vorontsova, T. V., 2C37
 Voropaev, E. I., 1J122, 2J108
 Vos, L., 1D23
 Vosmanska, M., 1J136
 Voss, H., 2H21
 Voteller, C., 5C84
 Voty, W., 2D104
 Voulgaropoulos, A., 3J141
 Vouras, P., 3J29, 6D54
 Voyksner, R. D., 1C126, 3J33, 3J34, 4C10, 4D135, 6C11
 Vozka, S., 1C26, 4F24
 Voznakova, Z., 1H83
 Vrana, O., 4D46
 Vratny, P., 1C26, 2J44
 Vrchlaby, M., 2H62, 4C72
 Vree, T. B., 2D96
 Vries, F., 5H7
 Vromans, E. W. M., 2D301
 Vrubel, T. L., 3H92
 Vrzina, J., 5C68
 Vtorgina, I. N., 1B165
 Vukotic, P., 6B63
 Vuori, E., 3D45
 Vuorinen, T., 5C18
 Vurek, G. G., 4D34
 Vyas, K. H., 4D95
 Vykoukal, E., 6F67
 Vytras, K., 4A18, 5C74
 Wachter, K. H., 2J98
 Wada, H., 1B53, 1D256, 5B49, 5B57, 5B84, 5D127
 Wada, M., 1D210
 Waddell, K. A., 2D149, 3D165
 Wade, A. P., 6A25
 Wade, J. W., 3A29
 Wade, N. A., 4D78
 Wadsten, T., 1C100
 Waechter, D. A., 2J159
 Waefler, C., 1G31
 Waegli, P., 5B189
 Wagner, A. P., 4D311
 Wagner, H., 3D70
 Wagner, Hildebert, 3E19
 Wagner, H. M., 1H23
 Wagner, J., 1D155
 Wagner, L. P., 4D311
 Wagner, R., 6H47, 6H69
 Wagstaffe, P. J., 2C3
 Wagstaffe, Peter J., 2E41, 5C56
 Wahlefeld, A. W., 4D168
 Wahlund, K. G., 1C42
 Wahrhaftig, A. L., 3J25
 Wai, C. M., 2H45, 4B140
 Wainer, I. W., 4E48, 5E15
 Wainwright, M., 2H105
 Wainwright, M. S., 2C13
 Wakabayashi, K., 4D322, 4D323
 Wakamatsu, Y., 6B130
 Wakamura, S., 1D117
 Wakefield, C. J., 2G12, 3B171
 Waki, H., 1B92, 2C28
 Wakimoto, Tadaaki, 2D105
 Wakimoto, Toshiaki, 3H60, 5H68
 Wakisaka, T., 1D162
 Walash, M. I., 2E60, 6E38
 Walberg, C. B., 4D93, 6D46
 Wales, C. P., 2J165
 Walker, E. A., 1C34
 Walker, G., 2D268
 Walker, M. A., 2G8
 Walker, R. L., 4J3
 Walker, R. O., 4D5
 Walker, R. W., 3D9, 6D120
 Walker, S. I., 6D181
 Walkuska, I., 1B83
 Wall, J. H., 2C107, 4D66
 Wall, P., 6J159
 Wallace, D. H., 6D120
 Wallace, E. M., 3H102
 Wallace, G., 6H45
 Wallace, G. G., 4H92
 Wallace, J., 6D94
 Wallace, J. E., 6E39
 Wallace, S. M., 3D56
 Wallbraun, O., 2D266
 Walle, T., 3D118
 Wallgram, W., 3B4
 Wallis, F. A., 3D146
 Wallnoeier, B., 6E29
 Wallwork, M. A., 5C10
 Walser, P., 6J15, 6J16, 6J17
 Walsh, D. L., 5G18
 Walter, B., 4D3, 6D49, 6D50
 Walter, E., 6B81
 Walter, R. H., 6F22
 Walters, F. H., 5C30, 5D137
 Walters, J. P., 1B71
 Walters, M. A., 6J105
 Walters, N. M., 5B174, 6J93
 Walters, P. T., 6H6
 Walters, R. B., 6H5
 Walters, R. R., 4J25
 Walters, S. M., 1E68, 4F17
 Walters, S. N., 2C55
 Walther, J. M., 3H16
 Walton, J. C., 5G14
 Wan, Z., 2H56
 Wan, G. A., 1B17
 Wanczek, K. P., 3J122
 Wanders, R. J. A., 3D200
 Wang, A., 3B66
 Wang, Baojun, 2A19
 Wang, Baoning, 6J80
 Wang, Changgen, 6E58
 Wang, Chinghai, 6D211
 Wang, C.-Y., 2C6
 Wang, D., 4E36
 Wang, E., 1B60, 1B103
 Wang, Fengpeng, 1E31
 Wang, F.-S., 2C11
 Wang, Fusheng, 4J63
 Wang, G.-C., 2J69
 Wang, G.-H., 5F56
 Wang, Guanghua, 6D211
 Wang, Guiying, 1E38
 Wang, Haizhou, 2B97
 Wang, Houji, 2B120, 4J136, 5B136

- Wang, Huaigong, 1B142, 5B54, 5B98, 6B120
Wang, Huahui, 5G2
Wang, Huixin, 4B186
Wang, H. C., 3J159
Wang, Jide, 3H8
Wang, Jieming, 6D187
Wang, Joseph, 2B99, 2J184, 2J185, 3J146, 6J163, 6J165, 6J166, 6J168
Wang, J. D., 6J29
Wang, J. L., 5A30
Wang, J. M., 3H52
Wang, M., 1B103
Wang, M.-Y., 5F56
Wang, Qichao, 6G3
Wang, Quinzhang, 2H71
Wang, Renzhi, 2D221
Wang, Ruixiang, 4E36
Wang, Runying, 4J34
Wang, Shouxin, 4B71
Wang, Shu, 1B177
Wang, Sufang, 2B120
Wang, S. M., 5D133
Wang, T., 4B25
Wang, Weizeng, 3H66
Wang, Wenji, 3B66
Wang, Xiang, 5E26
Wang, Xianzhang, 2B59
Wang, Xiaoru, 6B13
Wang, Xuanmin, 5B21
Wang, Yuanguang, 1D35
Wang, Yulu, 3A13
Wang, Yuming, 1E26
Wang, Yushan, 2D249
Wang, Zhaolin, 3E75
Wang, Zhen, 4B182
Wang, Zhenqing, 4B144, 5B133
Wannlund, J. C., 1D254
Wannman, T., 1J76, 1J77
Wantschik, M., 2B80
Wappling, R., 2A29
Warburton, G. A., 2G12, 3C70
Warchal, M. E., 3D147
Ward, C., 4D334
Ward, F. E., 4D88
Ward, J. A., 3D142
Ward, J. F., 6D261
Ward, J. L., 2J20, 3E36
Ward, L. A., 6D9
Ward, W., 4D337
Ware, G. M., 5G21
Warner, B. J., 4H70
Warner, I. M., 3J89
Warner, R. A., 3J132
Warner, S. A., 2D170
Warner, T. G., 2D122
Warnick, G. R., 3D181, 3D182
Warnock, D. W., 5E41
Warnock, L. M., 3D270
Warren, C. D., 6D151
Warren, F. V., jun., 2C1, 3A27
Warren, J. S., 1H40
Warren, K., 1D161
Warren, R. J., 3E9
Warren, R. L., 5D11
Wartburg, A. F., 1H18
Warth, A. D., 5D125
Warwick, C. J., 1H42
Wasa, T., 1J198, 4J140
Waser, P. G., 2D4
Wasey, A., 4B37, 4B132
Washburne, M., 1H91
Wasiak, W., 2J65
Wasilewska, L., 3D122
Waskowski, B., 5D19
Wassel, W. W., 4J21
Wasserbaech, W., 2D2
Watabe, S., 4D256
Watanabe, A., 1H86
Watanabe, Chizuko, 3D93
Watanabe, Chuichi, 5C15
Watanabe, H., 3J103
Watanabe, Hideo, 4B67
Watanabe, Hisashi, 3F54
Watanabe, Isao, 6H59
Watanabe, Iwao, 4B56
Watanabe, K., 1D233
Watanabe, Kazuo, 4B134
Watanabe, Keizo, 6D113
Watanabe, N., 4D209
Watanabe, S., 4D184
Watanabe, Takehiko, 5D127
Watanabe, Tokuhiko, 4C42
Watanabe, Tokuko, 2H9
Watanabe, Yoshihiko, 1D174, 2C10, 5D117
Watanabe, Yoshihito, 3D260
Watkins, J. B., 4D21, 4D288
Watkins, P. J. F., 5J95
Watson, A. E., 5J128
Watson, I. D., 6D122
Watson, J. D. McK., 2J11
Watson, J. M., 6J97
Watson, J. T., 3J124
Watson, T. R., 6D51
Watters, R. J., jun., 5A24
Watterson, J. I. W., 3B12
Watts, C. D., 5H87, 6H50
Watts, K. L., 5D60
Waud, J. M., 1D11
Waugh, J. S., 4J97
Waugh, S. W., 2D86
Wawschinek, O., 1D27, 4D83
Wayne, D. H., 4J80
Weatherburn, M. W., 2D46
Weaver, M. R., 2D16
Webb, A. H., 6H6
Webb, B. A., 5D215
Webb, G. A., 3J126B
Webb, H. M., 6H65
Webb, J. W., 1D118
Webber, J. S., 1B195
Webber, L. S., 3D183
Weber, Anders, 2J89
Weber, Anne, 1D261
Weber, B., 4D178
Weber, G., 2F38, 6F2
Weber, J., 3J110
Weber, R., 3C92
Weberg, R. T., 3H87
Webster, D. E., 3J149
Wechsler, J. G., 2D166
Wechsung, R., 1J155
Wedge, E., 6D52
Weeke, F., 1J85, 1J93
Weeks, S. J., 3K86
Weerasekera, D. A., 4D222
Wegscheider, W., 4D207, 6J38
Wehr, C. T., 1D183, 1D184
Wehrly, J. A., 4D250, 4D251, 4D257
Wehry, E. L., 1C59, 6J99
Wei, C., 1B53
Wei, G., 5B96
Wei, H., 5B21
Wei, M., 1D273
Wei, Y., 6C49
Weicker, H., 4D13
Weight, G. J., 1H31
Weigl, Z., 3C66
Weimann, B., 2J153, 4A26, 6A28
Weinberg, V. A., 3C89
Weinberger, R., 2D99
Weiner, S., 3D176
Weinert, C. H., 6B2
Weinhouse, S., 4D334
Weinkove, C., 4D195
Weir, D. E., 3D216
Weirs, L. D., 3F51
Weiser, W. E., 5J105
Weiss, G., 1D94, 1F23, 1F24
Weiss, H., 3B24, 6B142
Weiss, L., 1D268
Weissberg, P. L., 5D16
Weisser, O., 5C59
Weisweiler, P., 4D268
Weisz, H., 3B18, 4J16, 6B12
Weitzel, I., 3B176
Weitzmann, L., 2D131
Welch, K. H., 1D24
Welch, M. J., 4J107
Welch, T., 6C73
Welham, K. J., 3J117
Welinder, B. S., 2E38
Wellby, J., 3D165
Wellner, E., 6F15
Wells, G., 3J52
Wells, M. J. M., 1G25
Welscher, T. M., 3D60, 3D114
Welty, J., 4F42, 5F60
Wenclawiak, B., 5C27
Wendel, G. J., 5H15
Wendl, W., 5B132
Wendling, U., 4G8
Wenk, M., 5D39
Wenzel, U., 4B89
Weppelman, R. M., 4A4
Werbicki, J. J., jun., 1B46, 6B45
Werkhoven-Goewie, C. E., 1D50
1H77, 1H78
Werner, G., 4B125, 4B191
Werner, H. W., 3B175
Werner, I., 1B104
Werner, M., 3D230
Werner, W., 6B111
Werner-Basse, A., 6E23
Wernisch, J., 2J88
Wertz, P. G., 4D101
Wesemann, R., 3D70
Wesolowski, M., 1E6, 1E7
Wessling, W., 6D70
West, D. B., 6F64
West, G. J., 6D261
West, I. W. L., 6D261
West, M. J., 5D16
West, P. W., 1H25
West, T. S., 2G3, 3J74
Westberg, H. H., 5H24
Westcott, N. D., 1G39
Westelius, R., 5F63
Westerink, B. H. C., 6D129
Westerlund, S., 1H50
Westermeyer, R., 4J57
Western, W., 2H11
Weston, W. L., 1D197
Westwood, S. A., 1J51, 3J28, 5H47
Wetzel, E., 3D10
Weyl, D. A., 5J5
Weyland, J. W., 6J28
Wheals, B. B., 6J24
Wheeler, J. R., 1J106
Whelpton, R., 3D59
Whicher, J., 1D194
Whicher, J. T., 2D247
Whitaker, C. F., 3D183
White, C. A., 3D149
White, E., 4J107, 5J51
White, E. L., 4D224
White, F. T., 4C50
White, G. F., 4B114
White, G. H., 6D188
White, G. W., 6F28
White, J. L., 6F70
White, L. O., 5E24
White, M. W., 6D220
White, N. J., 2D63
White, R. L., 1J90, 1J168, 3D223, 3J59, 4J104
Whitehead, J., 3A33B
Whitehurst, D. D., 2C85
Whitmore, T. N., 5D100
Whitney, J. O., 5J57
Whittington, N. B., 2D162
Whyte, M. P., 4D216
Wicar, S., 6J63
Wichman, M. D., 6J84
Wick, F. J., 5B176
Wickham, M., 6A23
Wickramasinghe, S. N., 4D303
Wickstrom, K., 5G34
Wiedqvist, U., 3D143
Widmer, H. M., 1A2
Wie, S. I., 4D327
Wiedemann, I., 5D68
Wiedmeyer, R. H., 5H94
Wieland, O. H., 6D199
Wiener, D. F., 1D107
Wienhausen, G. K., 4D14
Wiese, K., 6B183
Wigfield, D. C., 1D36, 1D37
Wight, A. W., 3F6, 3F44
Wightman, R. M., 3J145, 5C43
Wijker, J., 5A23
Wijsbeek, J., 2E3
Wild, R. K., 6J113
Wildgrube, H. J., 3D194
Wiles, D. R., 6H42
Wilk, H., 5E2
Wilke, D. L., 5D236
Wilkie, S. D., 3D245
Wilkins, B. T., 1H71
Wilkins, C. L., 1J90, 1J168, 3D223, 3J59, 4J104
Wilkins, J. P. G., 5F50
Wilkins, T. A., 2D8
Wilkinson, C. F., 5D204
Wilkinson, D. J., 2D101
Wilkinson, J. E., 2J76
Wilkinson, L. F., 6D112
Wilkinson, R. E., 6D31
Willeke, K., 1J4
Willemsen, J. J., 1D157
Willemsen, M. F. C., 1J176
Willette, J. E., 1D36
William, R. G., 4J93
Williams, Albert, 4D334
Williams, Andrew, 5C40
Williams, B. A., 3J5
Williams, D. F., 6J3
Williams, D. S., 5J77
Williams, D. T., 6D143
Williams, F. W., 2H23
Williams, G. A., 4D103
Williams, G. W., 2D1
Williams, I., 1J134
Williams, K., 2D277
Williams, M. G., jun., 5D23
Williams, P. C., 1G7
Williams, P. L., 4D74
Williams, R. Jane, 2D240
Williams, Richard J., 1C51, 5B22
Williams, S. S., 6A27
Williams, W. K., 3J144
Williamson, A. D., 2H6
Willie, S. N., 5H49, 6H46
Willis, B. G., 3J22
Willis, D. E., 3C25
Willis, G. H., 6G35
Willis, K. A., 6A22
Willis, R. C., 4D317
Willix, R. L., 2H42
Willmer, P. G., 2H50, 5H51
Willoughby, E. W., 5D159
Wills, M. R., 6D255
Wills, R. B. H., 2F32
Wilson, A. M., 2F31
Wilson, B. L., 2H65
Wilson, C. W., III, 1F33, 1F41
Wilson, J. N., 4B94
Wilson, J. T., 2J78
Wilson, K. J., 3D248
Wilson, M. J., 3D118
Wilson, M. L., 5D139
Wilson, R. L., 1B25
Wilson, R. R., 3J154
Wilson, S. A., 4B149
Wilson, W. E., 5D128
Wilson, Y., 5D199
Wimalasiri, P., 2F32
Windawi, H., 2J157B
Windemann, H., 6F45
Windham, W. R., 6G18
Windig, W., 1D7
Winefordner, J. D., 1J114, 1J132, 1J137, 2J120, 2J124, 2J127, 3J88, 4E22, 4J76, 4J90, 5B50, 5J132, 6A12, 6E6, 6E50, 6J34
Wing, T.-Y., 2D180
Wingard, L. B., jun., 2D115
Winge, D. R., 3D290
Wingender, W., 5D76
Winingger, M. T., 6C56
Winka, A., 3H62
Winkler, C., 3D169
Winkler, G., 2D131
Winskowski, J., 3C1
Winsor, L., 5H28
Winter, M., 5C84
Winton, M. R., 2D42
Winzer, W., 6F9
Wirth, M. J., 4C35
Wirtz, G. H., 3G4
Wirz, P., 2J107
Wisegarver, D. P., 4J1

- Wiseman, A., 1D282B
 Wisken, A. H., 5C52
 Wisneski, H. H., 1C94
 Witherspoon, L. R., 2D285
 Witkiewicz, Z., 6J59, 6J60
 Witkowska, S., 4B42
 Witowska, J., 6C42
 Wittkowski, M., 6F46
 Wittkowski, R., 2F5
 Wittkowski, W., 1J86
 Wittmaack, K., 1J163, 3J95
 Wittman, P. K., 4J76
 Wittman, R., 4D316
 Wittmann-Liebold, B., 5D146
 Witwicka, J., 6C87
 Witzani, H., 6H25
 Wiszczak, W., 6H25
 Wnuck, K., 4D95
 Wobraschek, P., 5J100
 Woebkenberg, M. L., 1H19
 Woelfel, T., 6D284
 Woerz, M., 1D78
 Woeste, L., 3J110
 Woestenborghs, R., 3D111
 Wogoman, F., 6D50
 Wohlfart, R., 3E32
 Wohlhueter, R. M., 1D115
 Woidich, H., 4F9
 Wojciak, W., 6B58
 Wojcik, W., 6G6
 Wojcik, W. J., 1D241
 Wojtasik, E., 3E5
 Wojtkowiak, Z., 4D236
 Wolczko, J., 3C18
 Wold, S., 4H83, 6A17, 6C37
 Wolf, E., 6F19
 Wolf, J., 6H17
 Wolf, M. A., 2A25, 2J159
 Wolf, P., 3D246
 Wolfbeis, O. S., 2A14, 4C9, 4C40
 4D321
 Wolfe, F. H., 1F21
 Wolfensberger, M., 1D175
 Wolff, C. M., 6D147
 Wolff, G., 3B155
 Wolff, J. P., 2G6
 Wolfson, S. K., jun., 2D115,
 4D150
 Wolhoff, H., 6D83
 Wolinska, A., 2C38
 Wollmann, H., 2E5
 Wolnik, K. A., 4J89
 Woltman, D. L., 3H99
 Wong, Alice S., 3D94
 Wong, Anthony S., 2H107, 4D78
 Wong, C. F., 3J130
 Wong, C. S., 6H39
 Wong, G. T. F., 4H62
 Wong, M. P., 3D213
 Wong, P. T. S., 2H85
 Wong, P. T. T., 6J102
 Wong, P. Y., 2D253
 Wong, S. C., 3J100
 Wong, S. H., 2H90
 Wong, S. H. Y., 2D86
 Wood, A. B., 4G21
 Wood, B. J. B., 4D276
 Wood, E. J., 2D238
 Wood, G. C., 5B67
 Wood, J. H., 3D89
 Wood, K. V., 1C88, 4J117
 Wood, P. J., 1D212, 4D247
 Wood, R., 1C28
 Wood, S. M., 3D295
 Wood, W. G., 5D168, 6D8
 Woodard, E. J., 2D294
 Woodard, M., 3E41
 Woodbury, J. F. L., 6D88
 Woodcock, B. G., 4D55
 Woodhall, B. J., 3J28
 Woodhead, J. S., 1D207, 5D162
 Woodruff, R., 4J86, 6J87
 Woodruff, S. D., 5J45
 Woods, K. L., 5D16
 Woodside, J., 4D303
 Woodward, A., 3D106
 Woolf, J. H., 6D263
 Woollard, P. M., 2D150
 Wootton, A. B., 1C113
 Wootton, M., 4H57
 Worobey, B. L., 6G25
 Worsfold, P. J., 2D28
 Worthington, J., 1D146
 Worthy, M. J., 2D162
 Woycikowski, J., 2C51
 Wozniak, J., 2H35
 Wrembel, H. Z., 2H53
 Wrenn, McD. E., 4D31
 Wright, D. J., 2D261, 5D234
 Wright, I. P., 4B105, 4J106
 Wright, R. M., 2D238
 Wright, S. J., 4B78
 Wright, W. E., 3D239
 Wrigley, C. W., 3D240
 Wronka, I., 2J153, 4A26
 Wronski, M., 5D4
 Wu, A., 3D287
 Wu, A. H. B., 6D4
 Wu, D., 6G3
 Wu, G., 4J133
 Wu, J. T., 4D211
 Wu, P., 6E39
 Wu, Q., 5H66
 Wu, Q.-F., 4H59
 Wu, S., 6B195
 Wu, S.-H., 4D245
 Wu, T., 6J85
 Wu, T.-C., 5D167
 Wu, T.-W., 2D258, 2D260
 Wu, Wanhua, 2A19
 Wu, Weineng, 6H63
 Wu, W. S., 4C59
 Wu, X., 5B96
 Wu, Y., 4E59
 Wueest, O., 1G31, 6G31
 Wuensch, H., 2B145
 Wulff, S., 4F46
 Wurian, I., 3E7, 3E8
 Wurzel, E., 4D69, 4D157
 Wurzenberger, M., 2F35
 Wyatt, C. J., 6F10
 Wyatt, R. J., 4D99
 Wybrow, B. R., 3J49
 Wyganowski, C., 3H50
 Wykes, P., 5J10
 Wyvill, P. C., 5D229
 Xavier, M., 2B83, 6B80
 Xenoulis, A. C., 6D19
 Xi, Jinrui, 3B142
 Xia, M., 4B95
 Xiang, C., 4C25
 Xiang, H., 3B78
 Xiang, P., 5B69
 Xiao, H., 5H19
 Xie, K.-H., 4C14, 5C19, 5C24
 Xie, Y.-X., 6J117
 Xin, W., 3E15
 Xu, B., 5H19
 Xu, F., 4B11
 Xu, G., 3E38
 Xu, Hongding, 3B116
 Xu, Hongpei, 5B54
 Xu, Junzhe, 4J130
 Xu, K., 4E23
 Xu, Liqiang, 4D18, 5B136
 Xu, Liruan, 6B128
 Xu, Lixin, 6E65
 Xu, M., 1H64
 Xu, M.-S., 5F56
 Xu, P., 3J80
 Xu, Q., 3A3, 6B146
 Xu, Shenjie, 3B129
 Xu, Shukun, 1H70, 6H44
 Xu, Shunying, 4B177
 Xu, Shuwu, 2E39
 Xu, W., 4H21
 Xu, Xinhua, 6J142
 Xu, Xiurong, 4J34
 Xu, Y. X., 5H91
 Xu, Zhaoyu, 5G31
 Xu, Zhenzhi, 3E76
 Xue, G., 6B72
 Xue, Q., 2E39
 Xue, X., 6D27
 Yabuta, Y., 4D24
 Yacobi, A., 1C27
 Yacynych, A. M., 2J177
 Yada, S., 3D140
 Yagi, F., 3D152
 Yagi, K., 3J103
 Yagi, Kunio, 1D170
 Yagi, M., 1B116, 3H85, 4H49
 Yagodin, G. A., 3J137, 3J139,
 6J141
 Yakamoto, I., 6D105
 Yakata, M., 6D192
 Yakovenko, O. V., 1B135
 Yakovlev, N. G., 3B84, 3B86
 Yakovlev, Yu. V., 5B8, 5B56,
 5B107
 Yakovleva, E. N., 2C41
 Yakovleva, T. P., 3B114
 Yakovleva, V. G., 5B61
 Yakubova, M. Sh., 5B120
 Yakubu, S. I., 6D272
 Yalcindag, O. N., 5E44
 Yamada, F., 1J64, 2E19, 2J46,
 4F38
 Yamada, H., 4D225
 Yamada, J., 4D217
 Yamada, Kazuhiko, 2C124
 Yamada, Kei, 6B155
 Yamada, Kiyoyuki, 2E14
 Yamada, M., 3C5, 4B136, 6B157
 Yamada, Sadaji, 2C96, 2C97,
 4F14
 Yamada, Shigeto, 1D185, 6D222
 Yamada, Y., 1H7
 Yamagishi, A., 6J42
 Yamaguchi, A., 4B167
 Yamaguchi, M., 1D257, 3D203,
 4D323, 6D285
 Yamaguchi, S., 5C67
 Yamaguchi, T., 6F31
 Yamaguchi, Y., 2D129, 4D184,
 5D115
 Yamahachi, Y., 3C32
 Yamakawa, T., 3D196
 Yamamoto, H., 1J198, 4J140
 Yamamoto, I., 1D239, 6D259
 Yamamoto, K., 1D73
 Yamamoto, Manabu, 4H8
 Yamamoto, Masanori, 5F9
 Yamamoto, R., 2D248, 3D75
 Yamamoto, S., 6J27
 Yamamoto, Yoshimasa, 5B29
 Yamamoto, Yuichi, 2C39
 Yamamoto, Yukio, 2J67
 Yamamoto, Yuroku, 1B72, 4H8
 5C69
 Yamamura, H. I., 3D227
 Yamamura, M., 2C113
 Yamamura, Y., 4D116
 Yamanaka, S., 5B29
 Yamane, I., 5B26
 Yamane, M., 6D162
 Yamane, Takako, 2D274
 Yamane, Takashi, 2B128
 Yamasaki, H., 2C124
 Yamashige, T., 2H16, 4H8
 Yamashita, H., 5B26
 Yamashita, S., 2D296
 Yamashita, T., 3B76, 4B98
 Yamato, A., 3G12
 Yamauchi, M., 3D220
 Yamazaki, M., 4D25, 5B17
 Yamazaki, S., 1B141
 Yamazaki, Y., 2C124
 Yamazoe, N., 2J164
 Yamskov, I. A., 5D136
 Yan, Haikie, 1C38
 Yan, Hongtao, 6J130
 Yan, Huiyu, 3H55, 6J171
 Yan, K., 2H106
 Yan, M., 2D221
 Yan, R., 2B90
 Yanagihara, S., 2D262, 3D136
 Yanagisawa, F., 5B127
 Yanagisawa, I., 6D162
 Yanagisawa, K., 1D38
 Yanagisawa, S., 2C73
 Yancey, J. A., 4C48
 Yancheva, M., 6B192
 Yancheva, T. M., 4C84
 Yandle, T. G., 2D183
 Yang, C., 1H60, 4A9
 Yang, C.-Y., 5J67
 Yang, G., 4H21
 Yang, K., 1B34
 Yang, K. R., 1B81
 Yang, Lihua, 2B110
 Yang, Luqing, 1B76
 Yang, M., 3B65, 6B54
 Yang, M. H., 4B213
 Yang, Qi, 4B47
 Yang, Qifu, 4F55
 Yang, R. K., 2D100, 6D97
 Yang, Shujun, 4B186
 Yang, Shukai, 2H56
 Yang, Y., 3H46
 Yankova, R., 5A19
 Yankovenko, O. V., 1B42
 Yankovskaya, T. A., 2B94
 Yankovskii, A. A., 2J106, 3J78,
 3J79
 Yao, J., 6J85
 Yao, S. J., 2D115, 4D150
 Yao, T., 4D15, 6J153
 Yao, X., 2B72
 Yao, Z., 4J130
 Yap, S. C., 6H49
 Yap, W. T., 4J107
 Yariomenko, V. M., 1J153
 Yaroshenko, A. D., 2B38
 Yasaka, T., 2D27
 Yashiki, M., 6D101
 Yashin, Ya. I., 1J42, 2C42, 2J15,
 4E46, 6E43
 Yasuda, T., 3B100
 Yasuhara, A., 1C60, 2H31
 Yasumi, S., 5B82
 Yasumoto, T., 5F39
 Yasuoka, T., 2D106
 Yates, J. E., 4B204
 Yates, R. L., 1C94
 Yatscolf, R. W., 3D270
 Yatzus, T., 6F55
 Yau, W. W., 1J200
 Yazawa, K., 1D243
 Ye, F., 2E39
 Ye, H., 2B70, 4B65
 Ye, M.-L., 3H53
 Yeh, C., 4D338
 Yeh, T.-L., 4C73
 Yeh, Y.-C., 5J67
 Yelle, L., 3D151
 Yen, T. F., 1H91, 3C89
 Yep, C., 4D78
 Yergey, J. A., 1C114, 2J143,
 5J139
 Yerhoff, F. W., 5H60
 Yeung, E. S., 5J45, 5J135
 Yeung, F. Y., 2D49
 Yieh, Y.-H., 4D228
 Yin, M., 2B72
 Yinon, J., 1C126, 2C127, 3J32
 Yiou, F., 1H16
 Yip, B. C., 5J135
 Yililammi, M., 6J131
 Yitalo, P., 6D246
 Yoda, K., 2D204
 Yoda, R., 2C39
 Yokohata, A., 4H20
 Yokoshima, T., 6D66
 Yokoyama, S., 6C61
 Yokoyama, Takushi, 1H62
 Yokoyama, Toshiro, 3J41,
 6B137
 Yokoyama, Tsuyoshi, 2F1
 Yonemura, K., 3D300
 Yonezawa, C., 6B167
 York, R. W. R., 6J140
 Yoshida, Akiko, 3D141, 6D138
 Yoshida, Ayako, 4F37
 Yoshida, E., 2H98
 Yoshida, Hiroshi, 2B21
 Yoshida, Hisakazu, 3H59
 Yoshida, Hisanobu, 1D178
 Yoshida, Hitoshi, 1B37
 Yoshida, I., 4B121
 Yoshida, Kaoru, 3D221
 Yoshida, Kazuo, 3H89, 3J43,
 5J68
 Yoshida, Koji, 6D262
 Yoshida, Kyoko, 5D216
 Yoshida, M., 2H9

- Yoshida, S., 2D29
 Yoshida, Tadashi, 4C60
 Yoshida, Takemi, 3D80
 Yoshida, Tsukasa, 5B11
 Yoshida, Y., 4D154
 Yoshihara, T., 2C94
 Yoshii, Y., 2C52
 Yoshikawa, K., 4F8
 Yoshikawa, M., 4H25, 5H36
 Yoshikawa, S., 6B62
 Yoshikiyo, K., 2B109
 Yoshimori, T., 2B86, 4B23
 Yoshimura, C., 2B122
 Yoshimura, W., 2H49
 Yoshinaga, T., 6D233
 Yoshino, T., 1B72
 Yoshio, M., 2B112
 Yoshitake, S., 1D209, 1D211, 4D248, 4D253
 Yoshitake, Y., 4H80
 Yoshitomi, H., 3D127
 Yoshiura, M., 2D195, 4D190, 4J134
 Yosizawa, S., 3G23
 Yosizawa, Z., 3D154
 Yost, B. T., 1J184
 Yost, R. A., 4J115, 5D25
 Yost, Y., 5D47
 Yotsuyanagi, T., 1B125, 2B8, 2B40
 You, N., 2B61, 5B119
 Young, C. W., 3D67
 Young, J. E., 6D248
 Young, J. P., 2B82, 3B68
 Young, J. W., 3D134
 Young, M. S., 5H21
 Young, R. J., 1D226
 Young, R. M., 6D131
 Youngless, T. L., 2C86
 Yoza, N., 1H62
 Yu, G., 5B28
 Yu, J. C., 2H45
 Yu, M., 3H63, 4H60, 4H61
 Yu, R., 1J192, 4B126, 6A20, 6J138
 Yu, T. R., 3G7
 Yu, V. L., 5D35
 Yu, W., 4J136
 Yu, W.-L., 2J69
 Yu, W. C., 3D105
 Yu, X., 3A10
 Yu, Y.-F., 3H53
 Yu, Zhenbang, 3E56
 Yu, Zong, 2E33
 Yu, Zongyuan, 1J190
 Yuan, C., 1B82, 4C25
 Yuan, Q., 1B143
 Yuchi, A., 5B49, 5B57
 Yudelevich, I. G., 2B176, 2B177, 2B178, 2B180
 Yudina, I. P., 5C34
 Yudina, L. V., 4H46
 Yudkoff, M., 5D142
 Yuh, H. C., 1B151
 Yuh, J. C., 1B57, 1B171
 Yuki, H., 3D93
 Yukshinskaya, L. A., 2B177
 Yule, T. J., 4J123
 Yun, Z., 1J36, 2J26, 4C1
 Yung, R. E., 2B157
 Yunusov, D. Kh., 3G18
 Zabairova, R. A., 6C52
 Zabkiewicz, J. A., 1D127
 Zabronsky, J., 2J168
 Zadgorska, Z., 3B154, 3B155
 Zagatto, E. A. G., 1J130, 5J15
 Zagruzina, A. N., 4B4
 Zaheria, E., 3C98
 Zahradnick, L., 1D116
 Zahradnick, M., 3E72, 5E4
 Zaikin, V. G., 2C18
 Zaini-Rahman, M., 4D223
 Zaitsev, B. N., 3B71
 Zaitseva, T. I., 2B180
 Zaitso, K., 2D254, 4D322
 Zak, B., 2D167, 2D168, 3D167, 6D44, 6D183, 6D228
 Zak, R., 4D255
 Zakaria, M., 1D242, 4J51, 5J74
 Zakett, D., 1C88, 2J150
 Zakhariya, A. N., 1H63, 3B96
 Zakhariya, N. F., 2B105
 Zakharov, I. A., 1H67
 Zakharov, S. D., 5D186
 Zakharova, L. A., 5E1
 Zakharova, L. M., 3B16
 Zaki, M. T. M., 4B82
 Zakirov, B. G., 2B57
 Zakupra, V. A., 5C29
 Zamboni, G., 4D229
 Zamchuk, Z. S., 6C24
 Zamponi, C., 5D81
 Zamponi, S., 6J164
 Zanevski, Y. V., 2J93
 Zangalis, K. P., 1B206
 Zanicchi, G., 4G18
 Zanina, L. S., 4E42
 Zapardiec, A., 1B52
 Zapevalov, M. A., 3J39
 Zapolski, E. J., 3J44
 Zarins, Z. M., 6F70
 Zaripov, G. M., 1B130
 Zarubina, I. V., 1D236
 Zaspel, B. J., 4D295
 Za'tar, N. A., 3B69
 Zatolokin, B. V., 6B123
 Zavgorodnii, V. S., 6C28
 Zawada, Z., 4J6
 Zazimko, E. A., 1B86
 Zbiral, J., 3B146
 Zecca, L., 3D58
 Zech, K., 1D78, 3D63
 Zeeman, P. B., 6J82
 Zehner, C., 3D135
 Zeiger, L., 5D144
 Zeinalova, S. A., 5B139
 Zeininger, H., 2B49
 Zeisler, R., 3D51
 Zelders, T., 3J12
 Zeldes, N., 1D16
 Zelenin, A. E., 4J103
 Zelenina, M. F., 6G32
 Zelenska, V., 3J46
 Zelensky, I., 3J46
 Zeltine, D., 4C82
 Zeltins, V., 4C82
 Zel'tser, L. E., 3G18
 Zelyukova, Yu. V., 3B55, 3H49, 5B108
 Zeman, A., 1C79, 2H27
 Zeman, I., 5C32
 Zemlo, L., 3J67
 Zemskov, S. V., 4B49
 Zemskova, I. A., 1J120
 Zeng, J., 6J156
 Zeng, K.-W., 2J69
 Zeng, Yanlin, 3E38
 Zeng, Yune, 3B63, 4B76
 Zenkevich, I. G., 6H20
 Zenki, M., 1B116
 Zerbi, G., 2J156B
 Zerezhgi, M., 2J71
 Zerlia, T., 4C71
 Zeug, Y., 2B62
 Zhang, Baogui, 3H96
 Zhang, Boyi, 2B92
 Zhang, Chaoping, 1H60, 4A9, 4B194
 Zhang, Chengliang, 5B21
 Zhang, Chuanyou, 1B34
 Zhang, Fan, 2H64
 Zhang, Fusheng, 4J130
 Zhang, Guizhu, 4B72
 Zhang, Guoxiong, 2B120, 4J136
 Zhang, Hanqi, 3B116
 Zhang, H.-F., 5H77
 Zhang, Hongtu, 3H55
 Zhang, Huashan, 4B76
 Zhang, Jingyi, 1E72
 Zhang, Jinrui, 6C49
 Zhang, K., 1H50
 Zhang, Li, 5B81
 Zhang, Lihua, 5B96
 Zhang, Lin, 4B61
 Zhang, Lixing, 6J97
 Zhang, Manping, 5B80
 Zhang, Maocheng, 2B160
 Zhang, Mingyu, 1J190
 Zhang, P., 1B121
 Zhang, Qing, 5H76
 Zhang, Qisheng, 4F55
 Zhang, S., 3H20
 Zhang, Wanjin, 3E75
 Zhang, Wenxin, 3C111
 Zhang, W.-X., 5F56
 Zhang, Xiuqin, 6E65
 Zhang, Xu, 3H20
 Zhang, Yusheng, 5G12, 6G12
 Zhang, Yuwen, 4F55
 Zhang, Yuxiang, 4B58
 Zhang, Zengrui, 4B47
 Zhang, Zhenjie, 6G29
 Zhang, Zizhen, 4B51
 Zhao, C., 4D228
 Zhao, Guandi, 2B90
 Zhao, Guiwen, 4B71
 Zhao, S., 2B97
 Zhao, Z., 4D29
 Zharov, V. P., 4H4
 Zhdanov, A. K., 5B74
 Zhdanova, G. N., 5B117
 Zhdanovich, Yu. V., 4E26
 Zhebentyaev, A. I., 1E71, 6E63
 Zheivot, V. I., 3J48
 Zhelyazkova, M., 6B192
 Zheng, D., 1B173
 Zheng, K., 6B68
 Zheng, L., 5B28
 Zheng, R., 5B171
 Zheng, Yongfeng, 5B96
 Zheng, Yongxi, 4B182
 Zheng, Z., 6J130
 Zhiglinskii, A. G., 2J109
 Zhikharev, Yu. N., 1B146
 Zhikhareva, E. A., 4B86
 Zhivopistsev, V. P., 1B59, 3B34, 4B55, 4B93, 5B58
 Zhohlo, F. A., 4D166
 Zhong, J., 3E15
 Zhou, Jingyuan, 2E33
 Zhou, Jixing, 2B72
 Zhou, L., 6D211
 Zhou, R., 1B121
 Zhou, S., 5H22
 Zhou, Tianze, 1H60, 4A9, 4B194
 Zhou, Tienze, 1A12
 Zhou, X., 4B95
 Zhou, Xingyao, 1J190
 Zhou, Zhaoyuan, 4B47
 Zhou, Zitian, 1H60
 Zhu, G., 1B60
 Zhu, L., 2B73
 Zhu, M., 4B71
 Zhu, S., 4J12
 Zhu, Yingquan, 4B61, 5G12, 5H58, 6B105, 6G12
 Zhu, Yuanbao, 1J192
 Zhu, Z. T., 2D121
 Zhuang, M., 2D58
 Zhukov, A. N., 2B169
 Zhukov, V. I., 5H29
 Zhukova, T. V., 5E35, 6E48
 Zhukovskaya, I. I., 6B88
 Ziebarth, G., 1C120
 Zief, M., 1J25
 Ziegenhorn, J., 4D168, 4D266
 Ziegler, E., 1J19, 2J153, 4A26, 4J22
 Ziegler, H., 4J78
 Zielinska, B., 2D226
 Zielinski, J., 1J68
 Zielinski, S., 4B80
 Zielke, C. L., 1D278
 Zielke, H. R., 1D278
 Zienius, R. H., 4G20
 Zier, H., 2D107
 Zier, M., 6H19
 Zignani, F., 5B95
 Zijlstra, R. J. J., 5J112
 Zikolova, P., 2E7
 Zikovskiy, L., 6B8
 Ziliacius, R., 6B46
 Zimin, M. G., 1B36
 Zimin, I. F., 2C37
 Zimmer, A., 4D48
 Zimmer, K., 5D12
 Zimmer, Karoly, 1J124
 Zimmerli, B., 6F14
 Zimmermann, R., 3D229
 Zingde, M. D., 3H54
 Zinic, M., 1E58, 6E55
 Zinn, A. B., 4D152
 Zinov'ev, A. L., 6J161
 Zio, C., 5D97
 Ziolek, A., 6J60
 Zippel, M., 6J101
 Zirino, A., 5H89
 Zizic, B., 1B120
 Zlakowska, W., 3C12
 Zlatkis, A., 2C11, 4J63
 Zlatkovic, M. J., 2C59
 Zlotnikova, N. N., 4B86
 Zmudzinska, I., 2E40
 Znamenskaya, A. P., 3C43
 Zobeley, S., 5D89
 Zodda, J. P., 4B157
 Zolezzi, C., S. R., 6H7
 Zolna, H., 6C10
 Zolotov, Yu. A., 1B89, 3B30, 4B4, 4B195, 5B159
 Zolotovitskaya, E. S., 1B114
 Zonszain, F., 3D319B
 Zonta, F., 3F53, 4F11, 5F73
 Zoric, V., 2E55
 Zorin, A. D., 5C25
 Zorov, N. B., 1B200, 4B33
 Zorya, B. P., 2E42, 6E56
 Zraika, M., 1D155
 Zsigrai, I. J., 1B147
 Zsolnay, A., 4H67
 Zuber, G. E., 3E9
 Zuber, K., 1C79
 Zuha, S., 6B35
 Zukrutdinova, A., 4B59
 Zuman, P., 5D72
 Zuman, Petr, 4A24
 Zumberge, J. E., 3C70
 Zupani, J., 1A22, 1A29
 Zverina, V., 4C23
 Zvyagintsev, A. M., 1G18
 Zygmunt, B., 1E52
 Zymon, S., 3C77



L

3

I

